CDX-1000RF

SERVICE MANUAL

US Model



SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION 13 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20 Hz to 20 kHz with no more than 1% total harmonic distortion.

Other Specifications **CD** player section

Compact disc digital audio System

system 90 dB Signal-to-noise ratio 10 - 20,000 Hz Frequency response Wow and flutter Below measurable limit Laser Diode Properties

Material GaAs+GaAlAs

785 - 815 nm (Typ. 800 nm) Wavelength

Emission Duration Continuous Less than 0.5 mW* Laser output power * This output is the value measured at a distance

of 0.7 mm from the objective lens surface on the

Optical Pick-up Block.

Model Name Using Similar Mechanism	CDX-2500R
CD Drive Mechanism Type	MG-363X-121
Optical Pick-up Name	KSS-521A

General

Outputs Line outputs 12 V DC car battery Power requirements (negative ground) Current drain 2A (at disc loading) Approx. $178 \times 50 \times 173 \text{ mm}$ Dimensions $(7.1/8 \times 2 \times 6.7/8 \text{ in.})$

(w/h/d)

Approx. $182 \times 53 \times 159 \text{ mm}$ Mounting dimensions

 $(7.1/4 \times 2.1/8 \times 6.3/8 \text{ in.})$

(w/h/d)

Approx. 1.1 kg (2 lb. 7 oz.) Mass Supplied accessories Parts for installation and connections (1 set)

Design and specifications are subject to change without notice.

COMPACT DISC PLAYER



SERVICE NOTE

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pickup block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

NOTES ON PICK-UP FLEXIBLE BOARD

The pick-up flexible board in this set is secured to the optical pick-up with an adhesive tape. Once the tape is removed, an adhering force becomes weak, and it cannot be reused.

Therefore, if the optical pick-up is replaced, replace also the pick-up flexible board with a new one.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

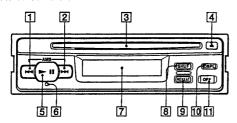
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SECTION 1 GENERAL

This section is extracted from instruction manual.

Location of controls

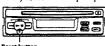


- AMS (Automatic Music Sensor) I
 button
- 2 AMS (Automatic Music Sensor)
- 3 Disc insertion slot
- 4 ≜ (eject) button
- [5] ▶11 (play/pause) button
 If pressed during playback, the CD will
 pause. If pressed again, playback will
 continue.
- 6 Reset button
- 7 Display window
- 8 SHUF (shuffle play) button
- 9 REPEAT (repeat play) button
- 10 DSPL (display mode change) button
- 1 OFF button

Getting Started

Resetting the unit

Before operating the unit for the first time or after replacing the car battery, you must reset the unit. Press the reset button with a pointed object, such as a ball-point pen.



Pressing the reset button will erase the clock setting and some memorized program and memory functions. When you connect the power supply cord to the unit or reset the unit, wait for about 10 seconds before you insert a disc within these 10 seconds, the unit will not be reset, and you will have to press the reset button again.

Changing the transmitting frequency

Because this unit processes CD playback sound through an FM tuner, there may be interference noise during CD playback. In this case, change the frequency of the modulated RP signal transmitted from the unit. The initial setting is

- 1 Press (REPEAT) for two seconds until frequency appears.
- 2 Press either the left or right side of (AMS) to select the frequency.

 Each time you press (AMS), the frequency changes as follows:

►► : 88.3 MHz → 88.5 MHz → 88.7 MHz → 88.9 MHz → 89.1 MHz → 89.3 MHz → 89.5 MHz → 89.5 MHz → 89.5 MHz → 89.7 MHz → 89.5 MHz → 89.8 MHz → 89.8 MHz → 89.3 MHz → 89.1 MHz → 88.9 MHz → 88.5 MHz → 88.5

3 Press (REPEAT) for more than two seconds.

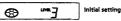
Note
Be sure to set the frequency of your FM tuner to the newly selected frequency.

Changing the output level

You can select the output level of the CD player. Normally the initial output level is adequate; change the level if necessary.

1 Press (REPEAT) for two seconds.

2 Press (REPEAT) again.



3 Press either the left or right side of (AMS) to select the output level. To decrease the output level

₩÷ ⊕

⊷:÷ ⊗

4 Press (REPEAT) for more than two

Operation

Listening to a CD

- 1 Adjust the selected transmitting frequency with an FM tuner. (88.3 MHz/88.5 MHz/88.7 MHz/88.9 MHz/ 89.1 MHz/89.3 MHz/89.5 MHz/89.7 MHz/ 89.9 MHz)
- 2 Insert a CD. Playback starts automatically.

Label side up



If a CD is already inserted, press ►II to start playback.



To play back an 8 cm (3 in.) CD, use the optional Sony compact disc single adapter (CSA-8).

3 Adjust the volume with the volume control on the car audio.

То	Press	
Stop playback	♠ or OFF	
Eject the CD	_	

- Notes

 Be sure to press (OFF) to turn this unit off when you want to listen to FM radio.

 When CD playback is stopped, you may hear some noise from the speakers. To prevent this from happening, turn the volume down before stopping CD playback.

 If you leave the ejected disc in the disc insertion slot after you have pressed \$\pmod\$, the disc will automatically retract into the unit after about 15 seconds in order to protect it.

Changing the display item

Each time you press (DSPL) during CD playback, the item changes as follows:

Locating a specific track

Automatic Music Sensor (AMS) During CD playback, press either side of (AMS) for each track you want to skip.



Locating a specific point in a track — Manual Search

During playback, press and hold either side of (AMS) for about two seconds. Release when you have found the desired.



Note if "L L L" or " \neg \neg \neg " \neg " appears in the display, you have reached the beginning or the end of the disc and you cannot go any further.

Playing a CD in various modes

Playing tracks repeatedly — Repeat Play

Press (REPEAT) during playback. "REP" appears in the display.

When the current track is over, it will play again from the beginning.

To return to normal playback mode, press again.

Playing tracks in random order

- Shuffle Play

Press (SHUF) during playback. "SHUF" appears in the display.

To return to normal playback mode, press again.

Connections :

Caution

- This unit is designed for negative ground 12 V DC operation only.

 Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.

 Connect the yellow and red power input leads only after all other leads have been connected.

 Be sure to connect the red power input lead to the positive 12 V power terminal which is energized when the ignition key is in the accessory position.

 Run all ground wires to a common ground point.

 Connect the yellow cord to a free car circuit rated higher than the unit's fuse rating.

 If you connect this unit in series with other stereo components, the car circuit they are connected to must be rated higher than the sum of the individual component's fuse rating.

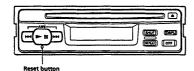
 If there are no car circuits rated as high as the unit's fuse rating, connect the unit directly to the battery.

 If no car circuits are available for connecting this unit, connect the unit to a car circuit rated higher than the unit's fuse rating in such a way that if the unit blows its fuse, no other circuits will be cut off.

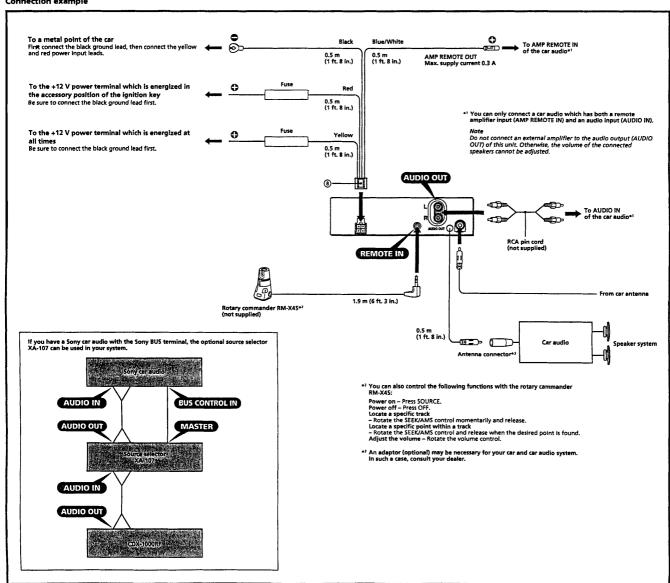
 The use of optical instruments with this product will increase eye hazard.

Reset button

When the installation and connections are complete, be sure to press the reset button with a ball-point



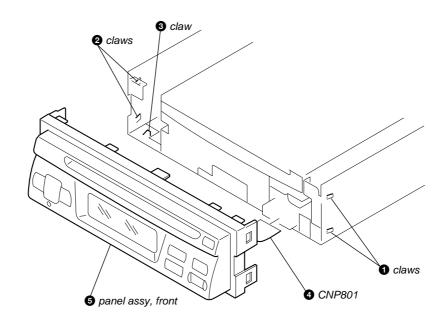
Connection example



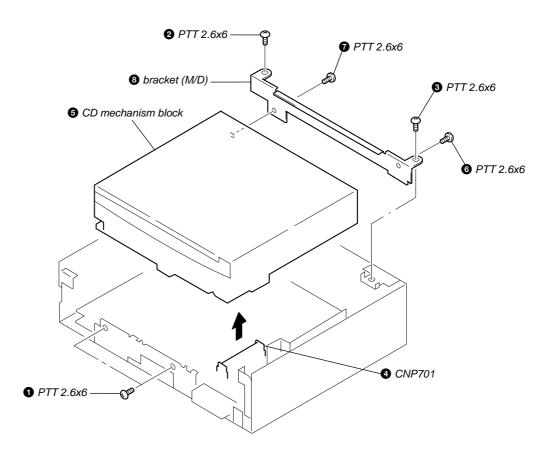
SECTION 2 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

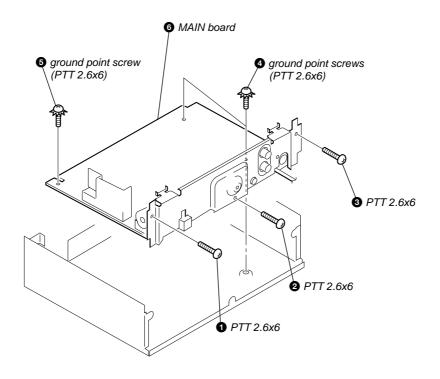
2-1. PANEL ASSY, FRONT



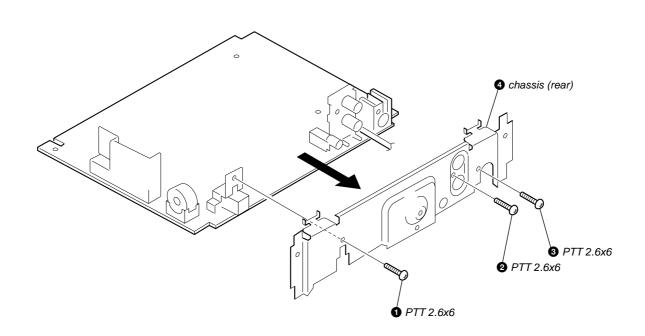
2-2. CD MECHANISM BLOCK



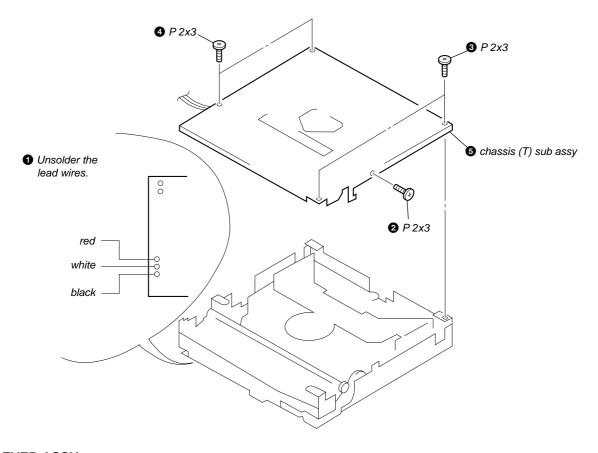
2-3. MAIN BOARD



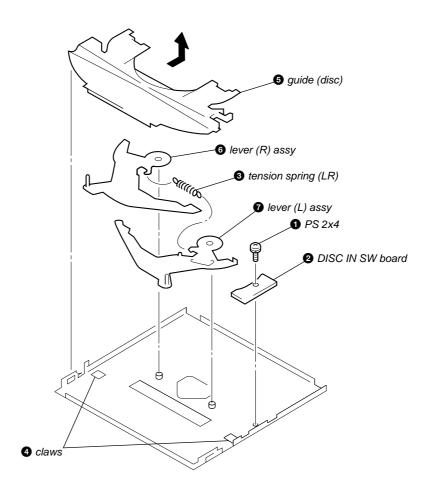
2-4. CHASSIS (REAR)



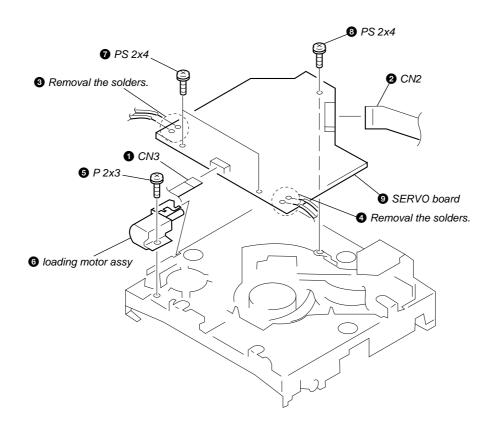
2-5. CHASSIS (T) SUB ASSY



2-6. LEVER ASSY

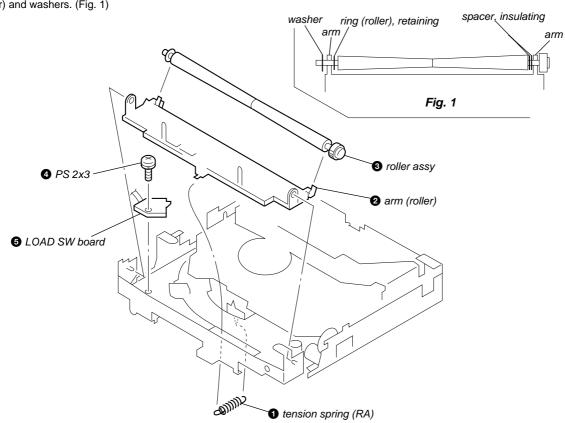


2-7. SERVO BOARD

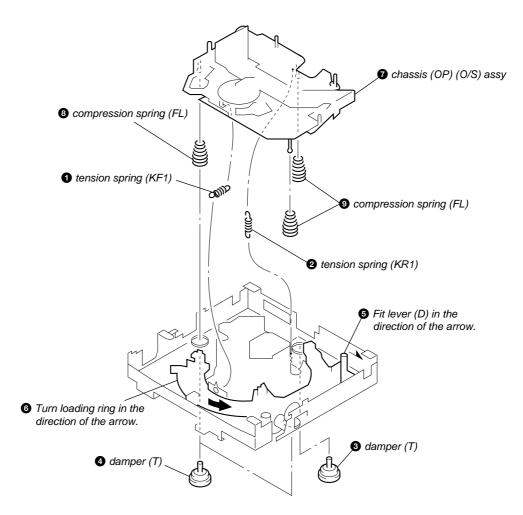


2-8. ROLLER ASSY

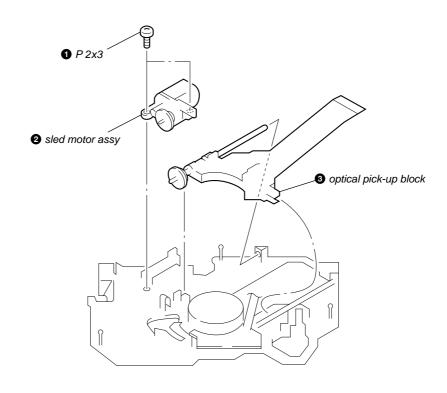
• When installing, take note of the positions arm (roller) and washers. (Fig. 1)



2-9. CHASSIS (OP) (O/S) ASSY



2-10. OPTICAL PICK-UP BLOCK



SECTION 3 ELECTRICAL ADJUSTMENTS

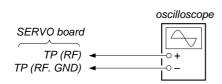
CD SECTION

Note:

- CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
- 2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
- 3. Use the oscilloscope with more than 10 M Ω impedance.
- Clean an objective lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

Focus Bias Adjustment

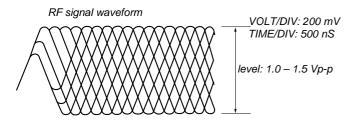
Setting: This adjustment is performed with the set placed horizontally.



Procedure:

- Connect an oscilloscope between TP (RF) and TP (RF. GND) on the SERVO board.
- 2. Connect the power supply.
- 3. Push the RESET button (S900) on the MAIN board.
- 4. Insert the disc (YEDS-18) and playback.
- Adjust RV1 so that the oscilloscope waveform is clear and check RF signal level is correct or not.

Note: Clear RF signal waveform means that the sharp "\$\infty" can be clearly distinguished at the center of the waveform.



• When observing the eye pattern, set the oscilloscope to AC range and raise the vertical sensitivity so that it may be easily seen.

Adjustment Location: servo board

Focus Gain Adjustment (Coarse adjustment)

This adjustment is not required unless the following parts are replaced:

- Optical pick-up
- RV4

Procedure:

- 1. Set RV4 to the standard position. (mechanical center)
- Check whether operation noise (while noise type) caused by the 2-axis device (lens section of the optical pick-up) is abnormally loud.

If the operation noise is too loud, turn RV4 slightly counterclockwise.

• If the gain is too low:

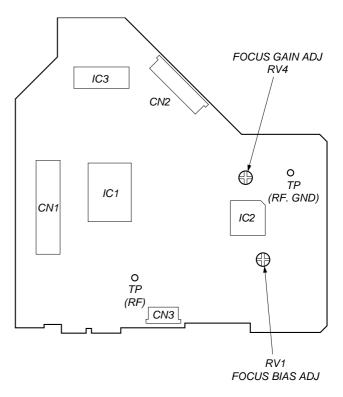
Focus does not function and no music is selected.

• If the gain is too high:

Noise caused by scratches and dust is heard and the operation becomes unstable.

Adjustment Location: servo board

Adjustment Location: servo board (component side)



SECTION 4 DIAGRAMS

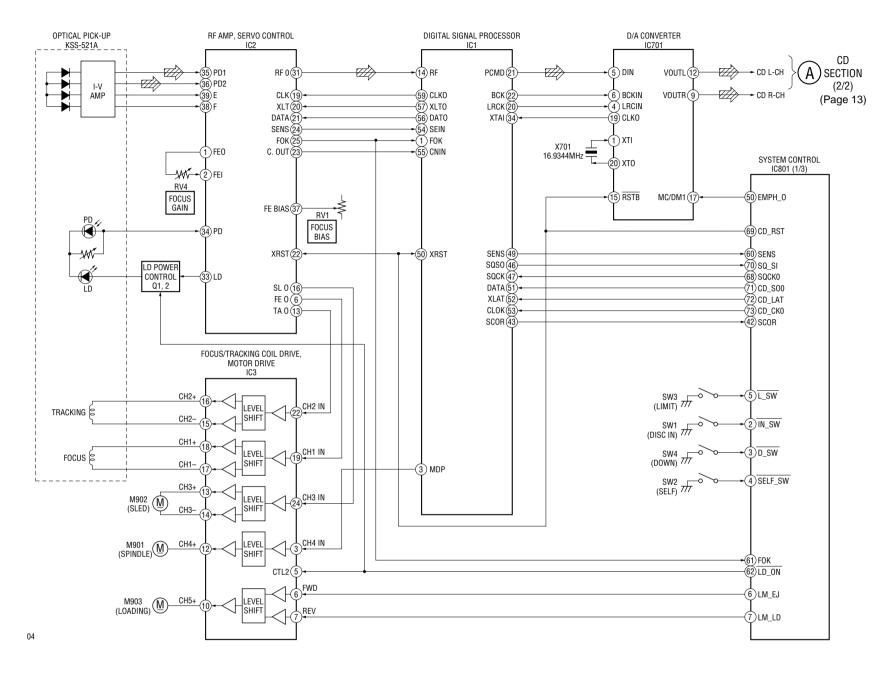
4-1. IC PIN DESCRIPTION

• IC801 μ PD17705GC-547-3B9 (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Pin Description
1	NC	1/0	Not used. (Connect to ground in this set.)
2	IN_SW		Disc insertion detection input L: IN_SW
			-
3	SELF_SW	I	DOWN switch detection input L: D_SW
4		I	Disc self store detection input L: SELF_SW
5	L_SW	I	Sled limit switch detection input L: L_SW
6	LM_EJ	0	Loading motor control output (Eject direction)
7	LM_LD	0	Loading motor control output (Loading direction)
8	RY_ON	О	Relay control output
9, 10	NC		Not used. (Open)
11	BAND_SW	I	BAND select input 0: US
12 – 20	NC		Not used. (Open)
21	GND3	_	Ground
22	NC		Not used. (Open)
23	ADKI2	I	A/D key input 2
24	ADKI1	I	A/D key input 1
25	ROTCOM	I	Rotary commander shift key input
26	NC		Not used. (Open)
27	TEST_SW	I	Test mode initial setting detection input L: TEST_SW
28, 29	NC		Not used. (Open)
30	VDD2	_	Power supply pin (+5 V)
31	FMIN	I	PLL local oscillator frequency input
32	NC	_	Not used. (Open)
33	GND2		Ground
34	NC	_	Not used. (Open)
35	EO1	О	PLL error 1 output
36	TEST0	_	Connect to GND line.
37 – 40	NC		Not used. (Open)
41	ACC_IN	I	Accessory power detection input L: ACC_IN
42	SCOR	I	SCOR signal detection input
43	MUTE	О	Mute control output
44	LEVEL D	О	Level control output
45	NC	_	Not used. (Open)
46	PH2	I	Connect to +5 V line.
47	LEVEL 1	О	Volume control output
48, 49	NC	О	Not used. (Open)
50	EMPH_O	О	Emphasis control output
51	PW_ON	О	System power control output
52	LM_ON	О	Loading motor power control output
53	CD_ON	О	CD power control output
54	ILLON	О	Illumination power control output
55 – 57	NC	_	Not used. (Open)
58	LCD_CE	О	LCD chip enable output
59	EZ_SEL	I	Rotary commander shift key input L: EZ_SEL
60	SENS	I	CD SENS signal detection input
61	FOK	I	Focus OK signal detection input
62	LD_ON	О	Laser ON/OFF control output L: LD_ON
63, 64	NC NC	_	Not used. (Open)
65	LCD_CLK	О	LCD serial clock output
66	LCD_DAT	0	LCD serial data output
67	LCD_INH	0	LCD inhibition output L: LCD_INH
68	SQCK0	0	Sub Q read clock output
30	345110		222 4 - 130 410 410 410 410 410 410 410 410 410 41

Pin No.	Pin Name	I/O	Pin Description
69	CD_RST	0	Reset output to CD signal processor IC.
70	SQ_SI	I	Sub Q data input
71	CD_SO0	0	CD signal serial data output
72	CD_LAT	0	CD signal processing data latch output
73	CD_CK0	0	CD signal processing serial clock output
74	NC	_	Not used. (Open)
75	GND1	_	Ground
76	XOUT	0	ceramic oscillator output (4.5 MHz)
77	XIN	I	ceramic oscillator input (4.5 MHz)
78	BU_IN	I	Backup power detection input
79	VDD1	_	Power supply pin (+5 V)
80	RESET	I	Reset input L: RESET

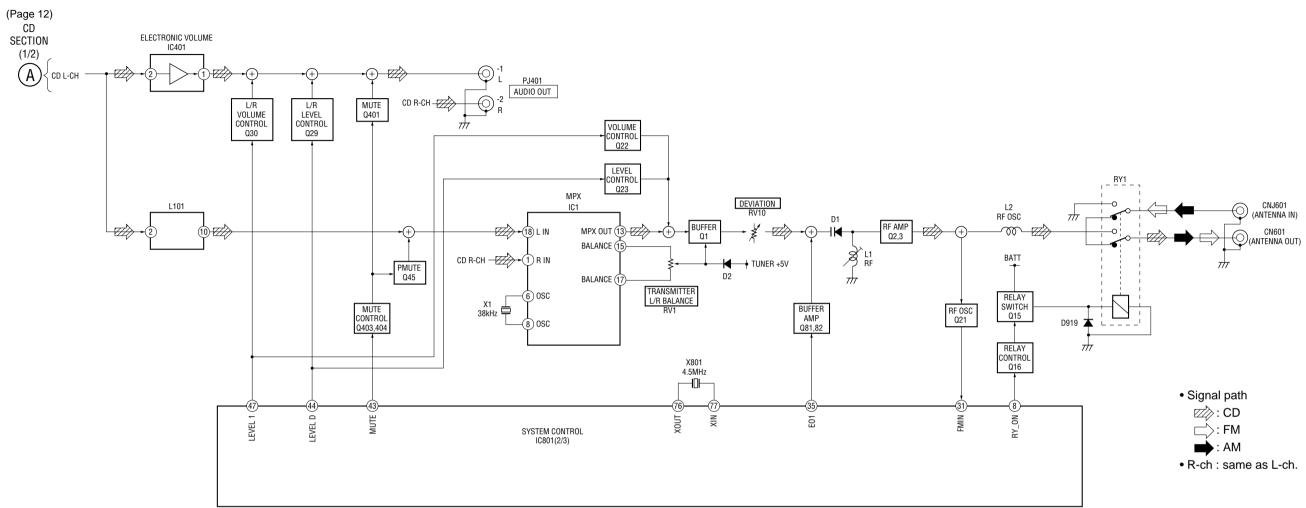
4-2. BLOCK DIAGRAM — CD SECTION (1/2) —



• Signal path

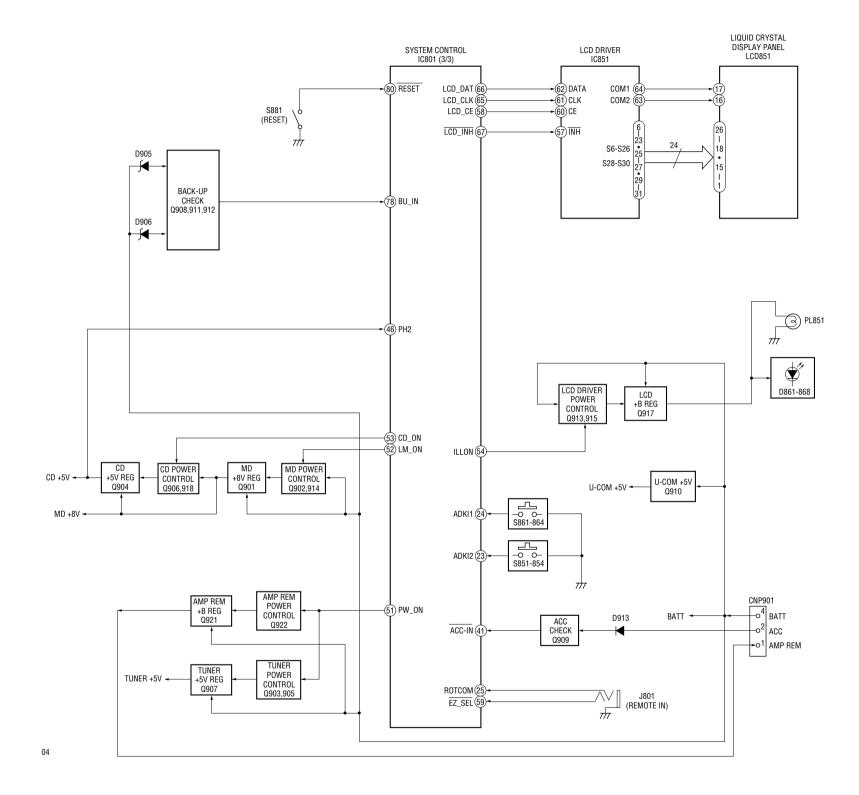
• R-ch : same as L-ch.

4-3. BLOCK DIAGRAM — CD SECTION (2/2) —

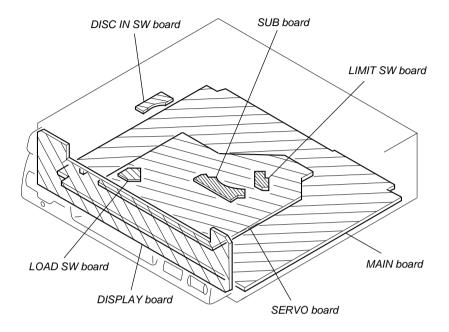


04

4-4. BLOCK DIAGRAM — DISPLAY, POWER SUPPLY SECTION —



4-5. CIRCUIT BOARDS LOCATION



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS. (In addition to this, the necessary note is printed in each block.)

for schematic diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- \bullet All resistors are in Ω and $^{1}\!/_{\!4}\,W$ or less unless otherwise specified.
- %: indicates tolerance.indicates tolerance.indicates tolerance.

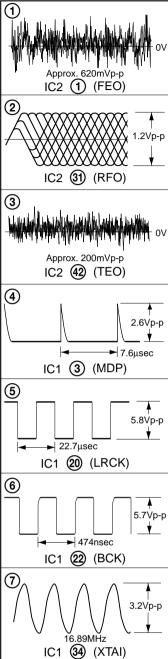
Note: The components identified by mark △ or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

- **B**+ : B+ Line.
- adjustment for repair.
 Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords. • Voltages are taken with a VOM (Input impedance $10 \, \text{M}\Omega$).
- Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- · Circled numbers refer to waveforms.
- Signal path. ⇒ :FM
- : AM : CD

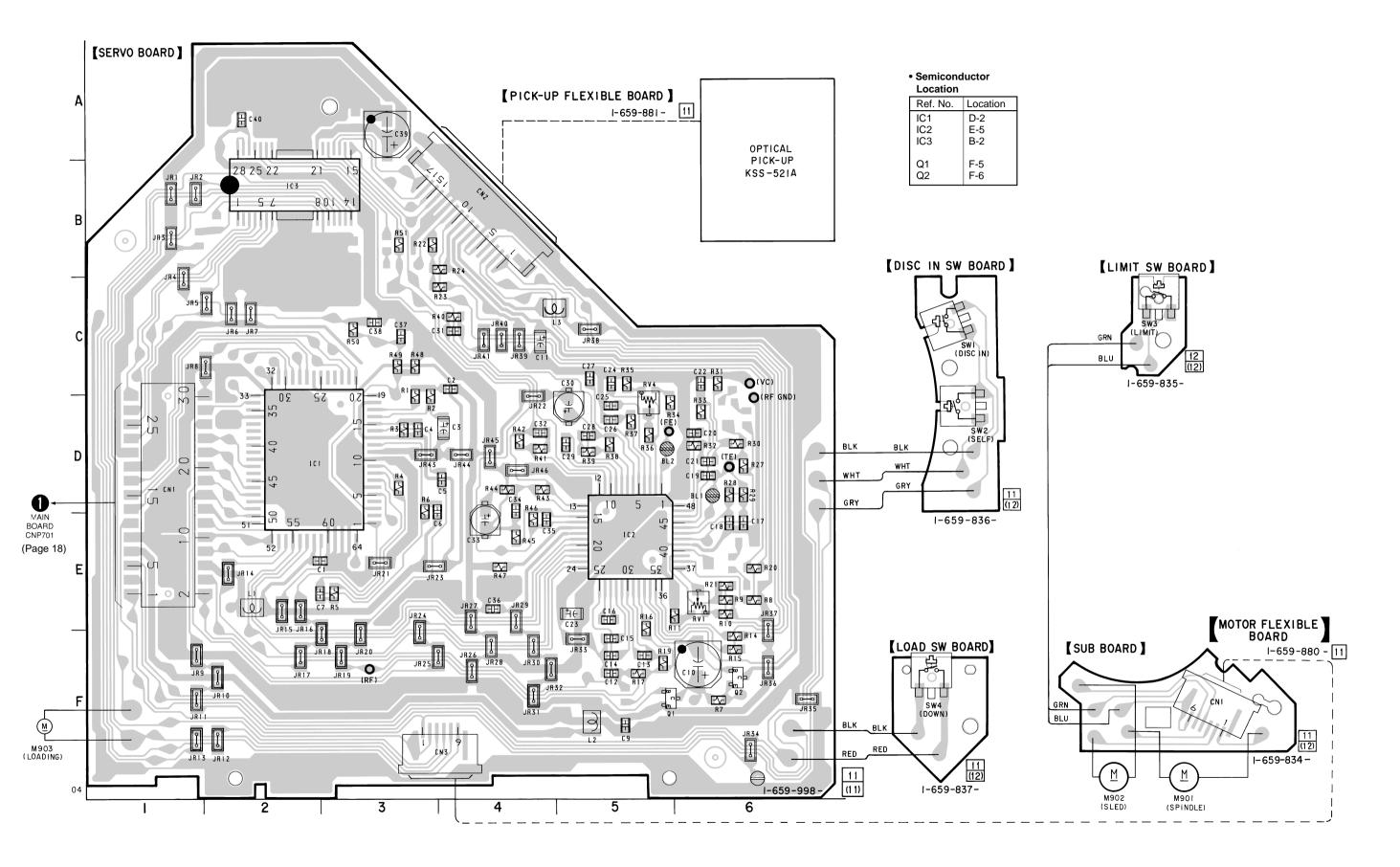
for printed wiring boards:

- • : parts extracted from the component side.
- : Pattern from the side which enables seeing.



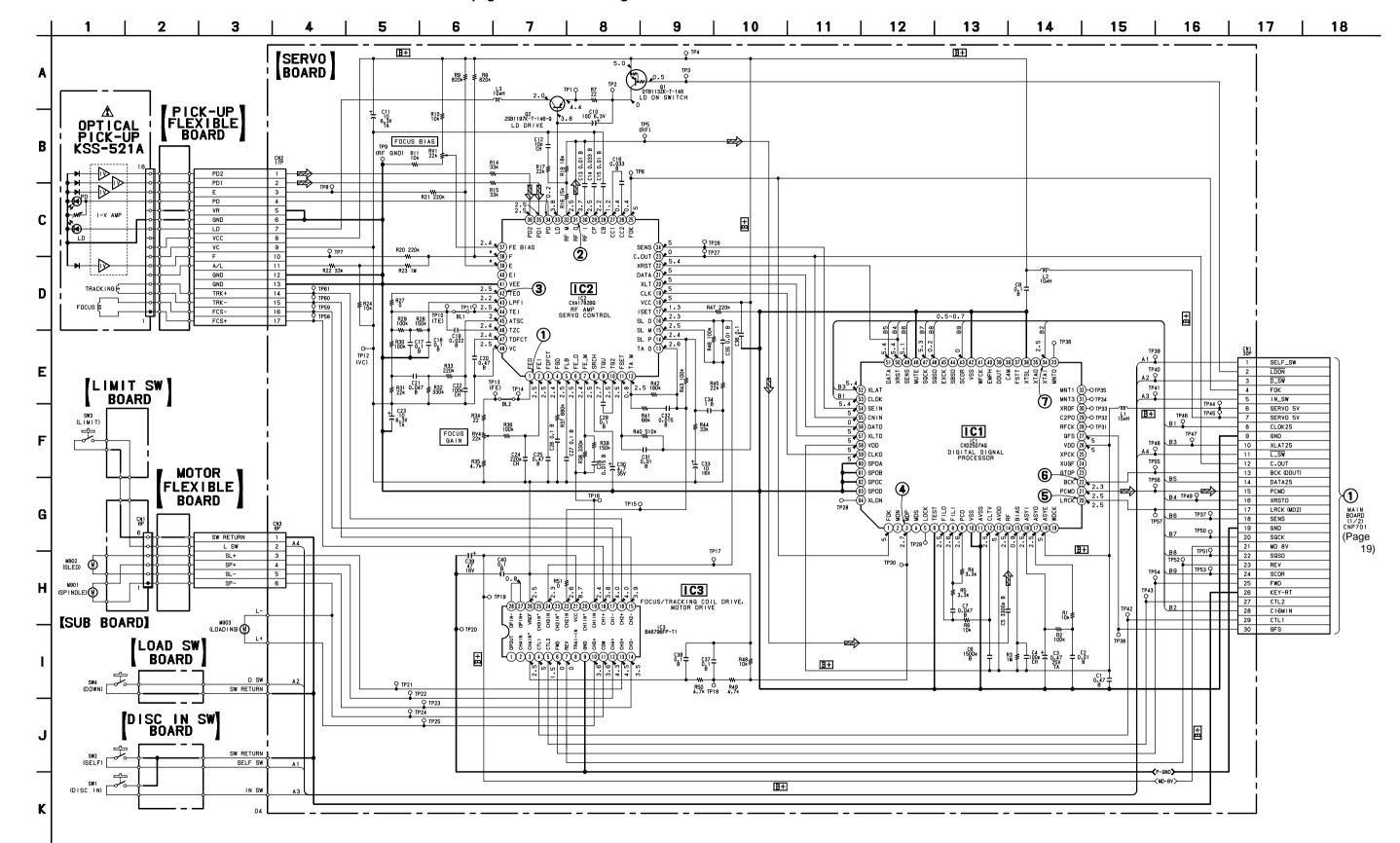


4-6. PRINTED WIRING BOARDS — CD MECHANISM SECTION — • Refer to page 15 for Circuit Boards Location.



4-7. SCHEMATIC DIAGRAM — CD MECHANISM SECTION — • Refer to page 15 for Waveforms.

• Refer to page 23 for IC Block Diagrams.



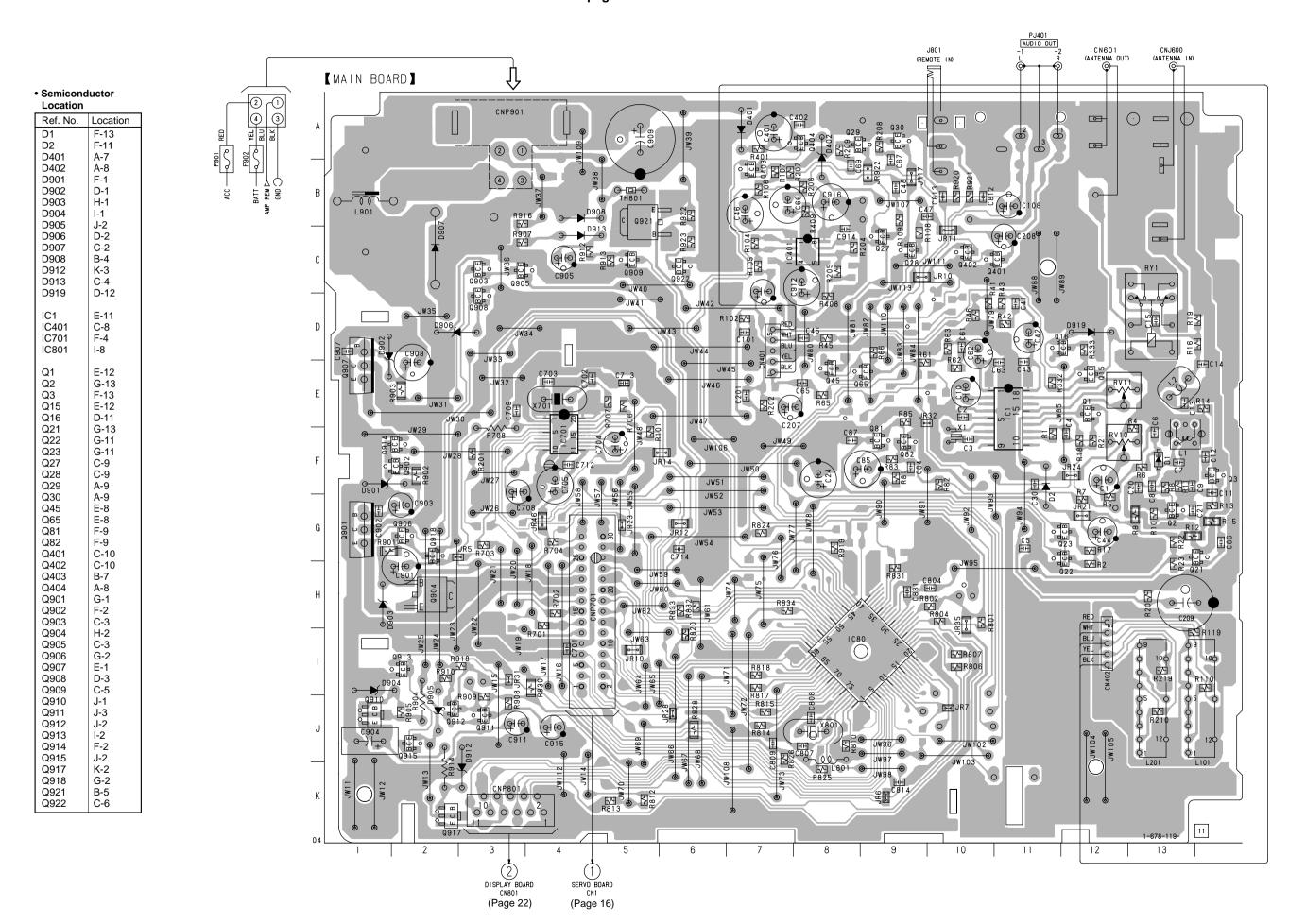
Note:

 Voltage and waveforms are dc with respect to ground under no-signal conditions.

no mark : CD PLAY

: Impossible to measure

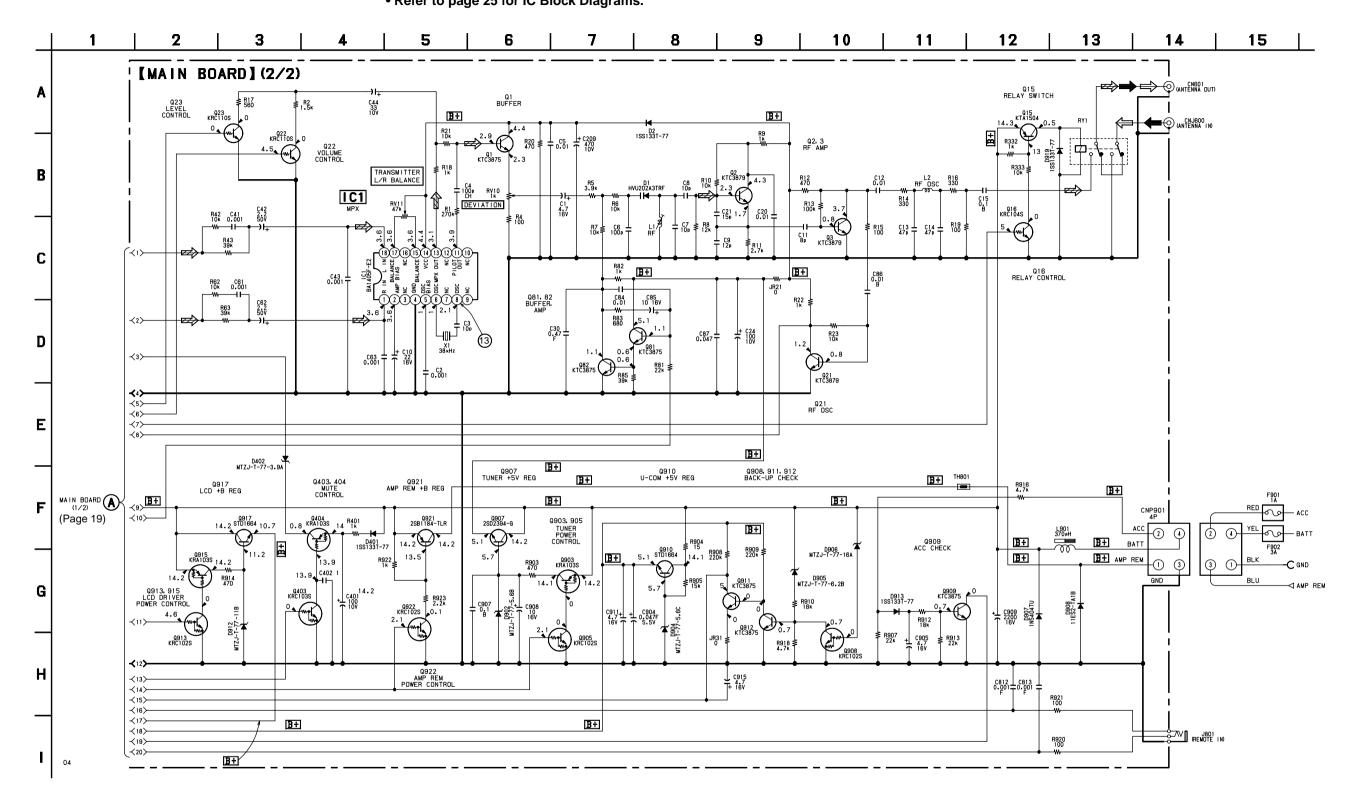
4-8. PRINTED WIRING BOARD — MAIN SECTION — • Refer to page 15 for Circuit Boards Location.



condition.

no mark: CD PLAY

4-10. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) — • Refer to page 21 for Waveforms.
• Refer to page 25 for IC Block Diagrams.

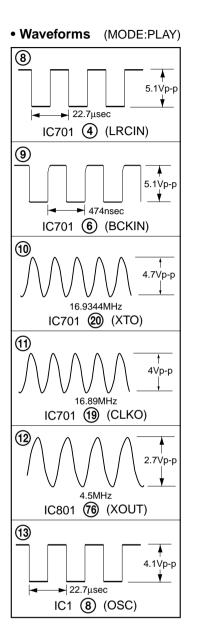


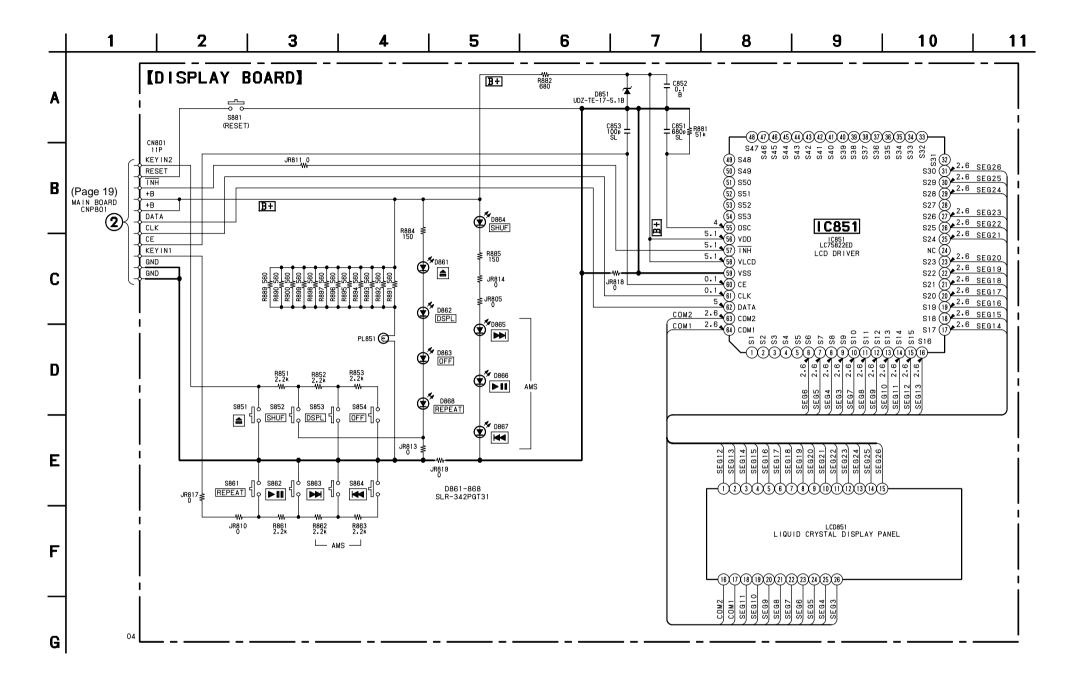
Note:

no mark : CD PLAY

Voltage is dc with respect to ground under no-signal condition.

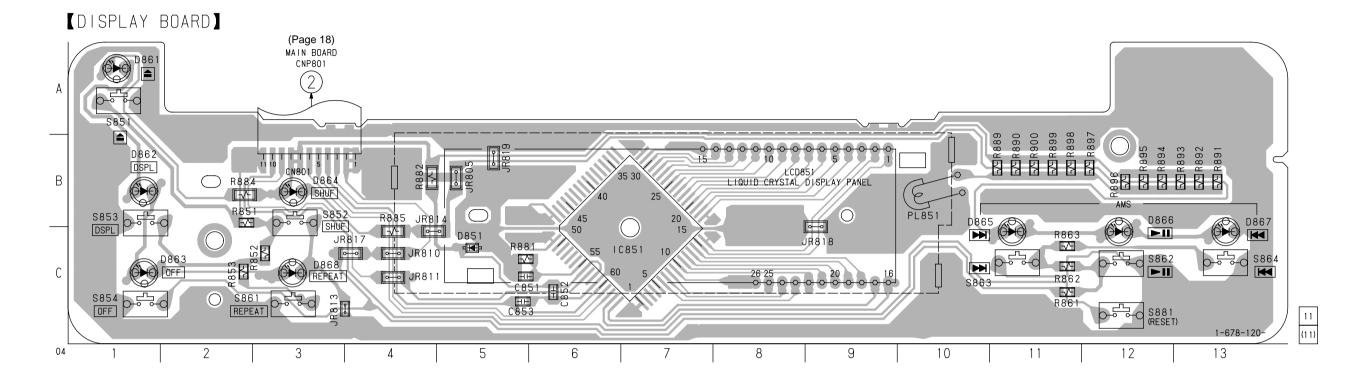
4-11. SCHEMATIC DIAGRAM — DISPLAY SECTION —





Note:

 Voltage is dc with respect to ground under no-signal condition.
 no mark: CD PLAY 4-12. PRINTED WIRING BOARD — DISPLAY SECTION — • Refer to page 15 for Circuit Boards Location.

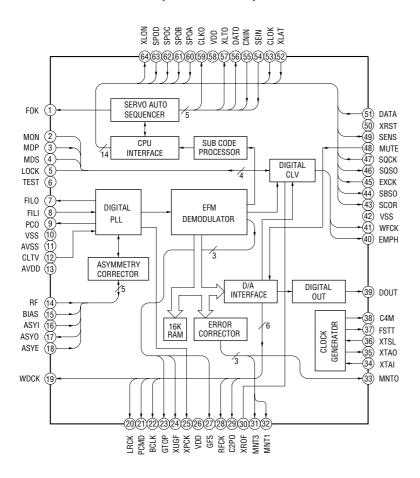


• Semiconductor Location

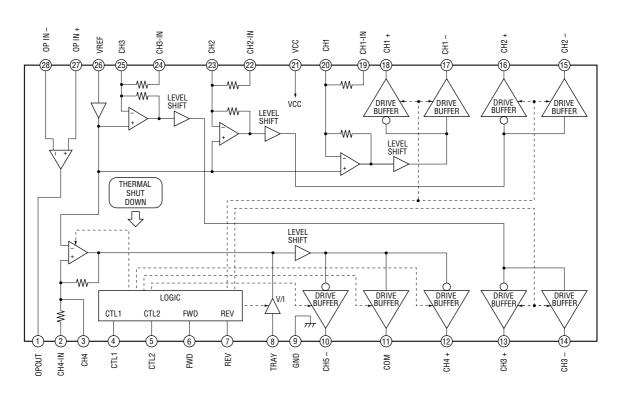
Ref. No.	Location
D851	C-5
D861	A-1
D862	B-1
D863	C-1
D864	B-3
D865	B-11
D866	B-12
D867	B-13
D868	C-3
IC851	C-7

• IC Block Diagrams

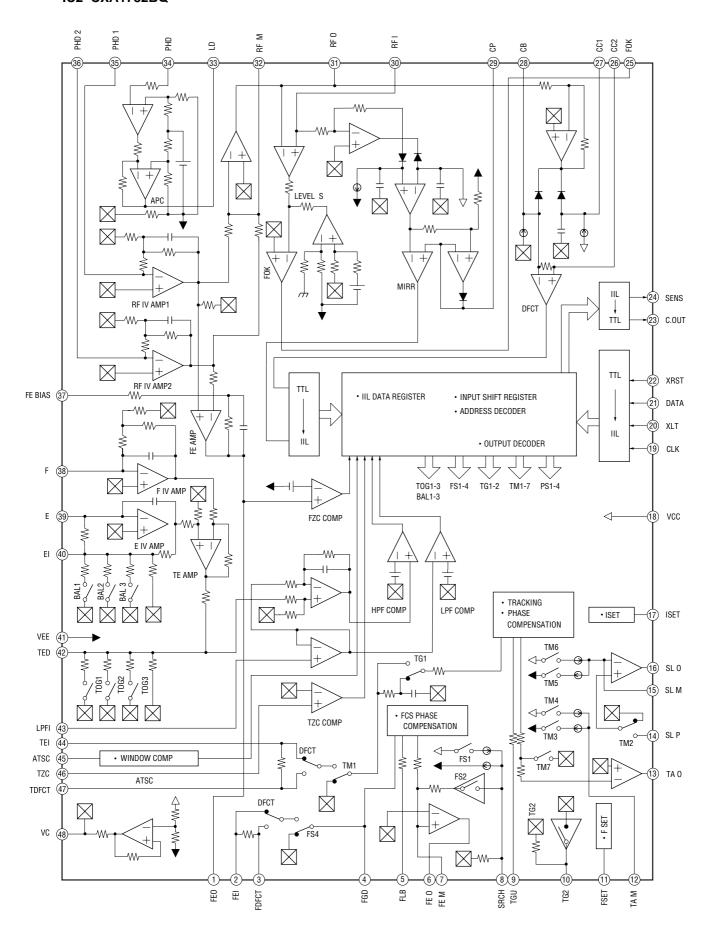
IC1 CXD2507AQ (SERVO Board)



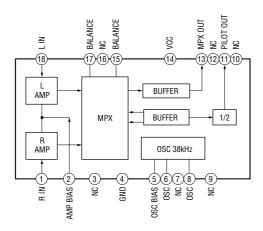
IC3 BA6796FP-T1



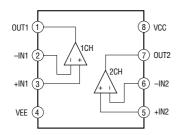
IC2 CXA1782BQ



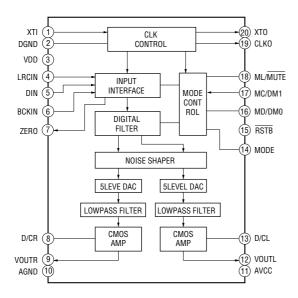
IC1 BA1405F-E2 (MAIN Board)



IC401 BA4558F



IC701 PCM1717E-S



SECTION 5 EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service.
 Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example :

KNOB, BALANCE (WHITE) ... (RED)

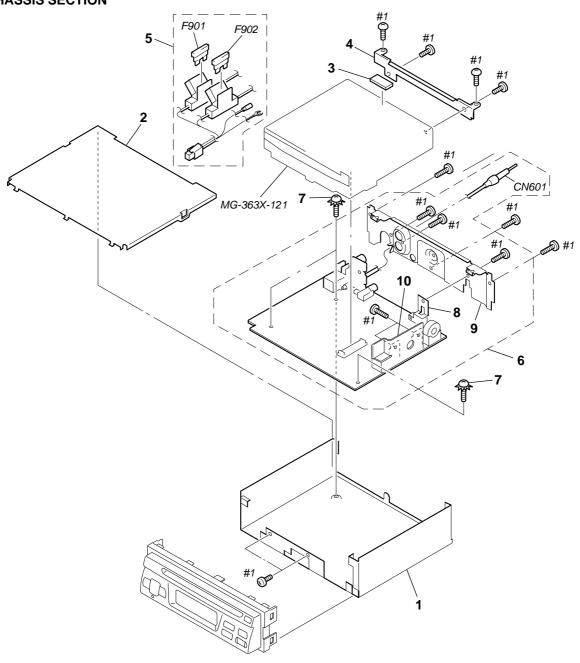
† †

Parts Color Cabinet's Color

• Accessories and packing materials and hardware (# mark) list are given in the last of this parts list. The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

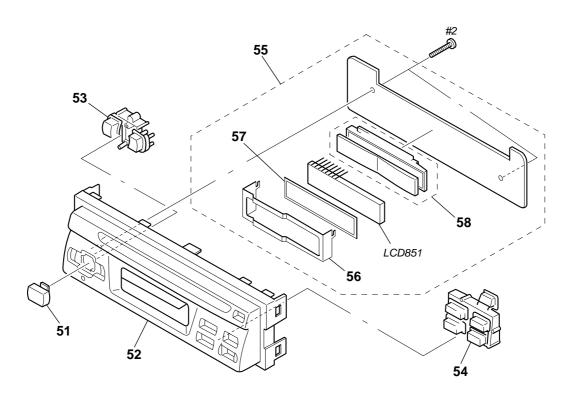
Replace only with part number specified.

5-1. CHASSIS SECTION



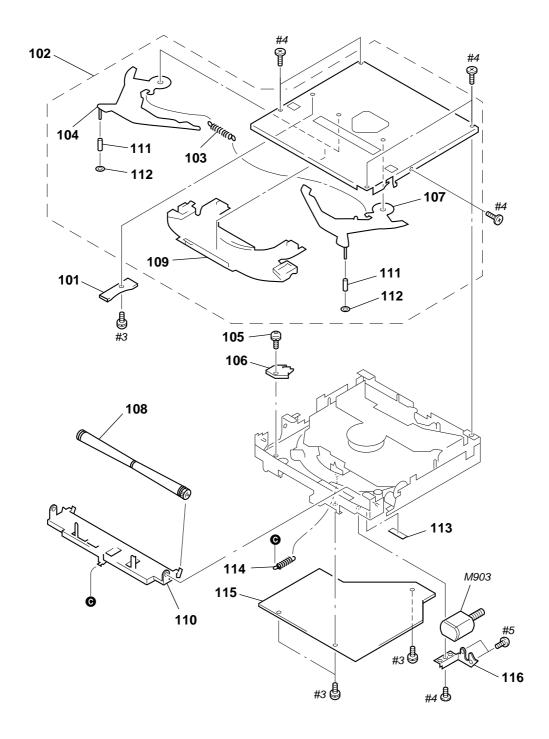
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
* 1	3-030-876-01	CHASSIS (MAIN)		7	3-922-535-11	SCREW (+BTT)	
* 2	3-030-925-41	COVER		* 8	3-045-807-01	BRACKET (CONNECTOR)	
* 3	3-024-285-01	CUSHION (RUBBER)		* 9	3-043-192-01	CHASSIS (REAR)	
* 4	3-030-927-01	BRACKET (M/D)		* 10	3-030-850-01	HEAT SINK (REG)	
5	1-792-738-11	CORD (WITH CONNECTOR) (POWER)		CN601	1-792-841-11	CORD (WITH CONNECTOR) (AN	TENNA OUT)
		(INCLUDING	F901,902)				
				F901	1-532-798-11	FUSE (BLADE TYPE) (AUTO FUS	E) (1A)
* 6	A-3294-932-A	MAIN BOARD, COMPLETE		F902	1-532-731-11	FUSE (BLADE TYPE) (AUTO FUS	E) (3A)

5-2. FRONT PANEL SECTION



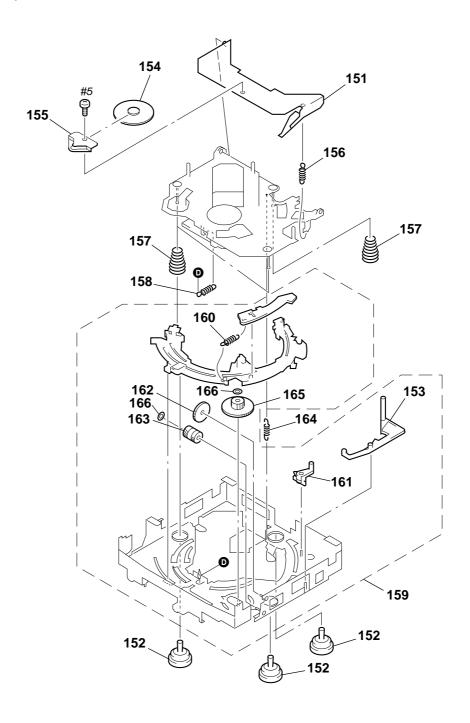
Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
51	3-043-188-01	BUTTON (PLAY)		* 56	3-043-193-01	PLATE (LCD), GROUND	
52	X-3378-481-1	PANEL ASSY, FRONT		* 57	3-043-196-01	SHEET (D)	
53	3-043-190-01	BUTTON (AMS)		* 58	X-3378-707-1	HOLDER (LCD) ASSY	
54	3-043-189-01	BUTTON (EJECT)		LCD851	1-803-904-21	DISPLAY PANEL, LIQUID CRYSTAL	
* 55	A-3294-933-A	DISPLAY BOARD, COMPLETE					

5-3. CD MECHANISM SECTION (1) (MG-363X-121)



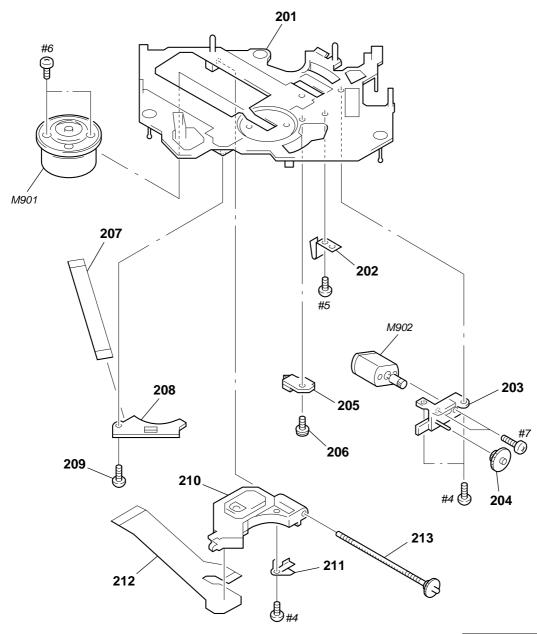
Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
* 101	1-659-836-11	DISC IN SW BOARD		110	3-017-301-01	ARM (ROLLER)	
* 102	A-3291-816-B	CHASSIS (T) SUB ASSY		111	3-936-756-01	ROLLER (D)	
103	3-931-909-01	SPRING (LR), TENSION		112	3-321-393-01	WASHER, STOPPER	
104	X-3371-501-5	LEVER (L) ASSY		* 113	3-939-139-01	SPACER	
105	3-338-737-01	SCREW (2X3), +PS		114	3-931-916-01	SPRING (RA), TENSION	
* 106	1-659-837-11	LOAD SW BOARD		* 115	A-3309-227-A	SERVO BOARD, COMPLETE	
107	X-3371-502-4	LEVER (R) ASSY		* 116	3-007-530-01	BRACKET (MOTOR)	
108	A-3301-203-A	ROLLER ASSY		M903	A-3291-676-A	MOTOR SUB ASSY, LOADING (LOADI	NG)
109	3-931-908-01	GUIDE (DISC)					

5-4. CD MECHANISM SECTION (2) (MG-363X-121)



Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
151	3-931-893-01	ARM, CHUCKING		159	A-3277-802-C	CHASSIS (M) COMPLETE ASSY	
152	3-931-897-01	DAMPER (T)		160	3-931-883-01	SPRING (TR), TENSION	
153	3-931-879-02	LEVER (D)		161	3-931-881-01	LEVER (LOCK)	
* 154	3-913-404-11	RETAINER (DISC)		162	3-931-882-02	GEAR (MDL)	
155	3-931-894-01	BRACKET (CP)		163	3-007-537-11	WHEEL (U), WORM	
156	3-931-895-01	SPRING (CH), TENSION		164	3-032-484-01	SPRING (KR1), TENSION	
157	3-931-898-01	SPRING (FL), COMPRESSION		165	3-014-727-01	WHEEL (LW), WORM	
158	3-032-483-02	SPRING (KF1), TENSION		166	3-018-272-01	WASHER	

5-5. CD MECHANISM SECTION (3) (MG-363X-121)



The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
* 201 202		CHASSIS (OP) (O/S) ASSY SPRING (SL), PLATE		209 	3-909-607-01	SCREW PICK-UP, OPTICAL KSS-521A/K1RP	
203	X-3371-504-1	BASE (DRIVING) ASSY		211	3-931-834-01	SPRING (FEED), PLATE	
204 * 205		GEAR (SL MIDWAY) LIMIT SW BOARD		212 213		PICK-UP FLEXIBLE BOARD SHAFT (FEED) ASSY	
206 207 * 208		SCREW (2X3), +PS MOTOR FLEXIBLE BOARD SUB BOARD		M901 M902		MOTOR ASSY (SPINDLE) MOTOR ASSY, SLED (SLED)	

SECTION 6 ELECTRICAL PARTS LIST

DISC IN SW

DISPLAY

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS All resistors are in ohms. METAL:Metal-film resistor. METAL OXIDE: Metal oxide-film resistor.

F:nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS In each case, $u: \mu$, for example: uA.. : μA.. uPA.. : μPA.. uPB.. : μPB.. uPC.. : μPC.. uPD.. : μPD..

 $uF:\ \mu F$ • COILS $uH:\; \mu H$

• CAPACITORS

The components identified by mark ⚠ or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	<u>Description</u>	Remark	Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>
*	1-659-836-11	DISC IN SW BOARD ************************************				< LIQUID CRYSTA	AL DISPLAY :	>	
		*****		L CD851	1-803-904-21	DISPLAY PANEL,	LIQUID CRY	STAI	
		< SWITCH >		202001	1 000 001 21		LIGOID OILI	01712	
CW4	1 570 000 01	CM/ITCH DHOH /DICC INI)				< PILOT LAMP >			
SW1 SW2		SWITCH, PUSH (DISC IN) SWITCH, PUSH (SELF)		PL851	1-517-973-11	LAMP. PILOT			
		***********	******			•			
*	Δ-3294-933-Δ	DISPLAY BOARD, COMPLETE				< RESISTOR >			
	A 0204 000 A	******		R851	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
	V 0070 707 4	HOLDED (LOD) 400V		R852	1-216-057-00		2.2K	5%	1/10W
*		HOLDER (LCD) ASSY PLATE (LCD), GROUND		R853 R861	1-216-057-00 1-216-057-00		2.2K 2.2K	5% 5%	1/10W 1/10W
*	3-043-196-01			R862	1-216-057-00		2.2K	5%	1/10W
		< CAPACITOR >		Doco	1-216-057-00	METAL CHID	2.2K	E0/	1/10W
		< GAPACITOR >		R863 R881	1-216-037-00		2.2K 51K	5% 5%	1/10W 1/10W
C851	1-163-137-00	CERAMIC CHIP 680PF 5%	50V	R882	1-216-194-00		680	5%	1/8W
C852		CERAMIC CHIP 0.1uF	25V	R884	1-216-178-00		150	5%	1/8W
C853	1-163-11/-00	CERAMIC CHIP 100PF 5%	50V	R885	1-216-178-00	RES-CHIP	150	5%	1/8W
		< CONNECTOR >		R889	1-216-043-11		560	5%	1/10W
011004	1 700 000 11	CARLE ELAT		R890	1-216-043-11		560	5%	1/10W
CN801	1-783-268-11	CABLE, FLAT		R891 R892	1-216-043-11 1-216-043-11		560 560	5% 5%	1/10W 1/10W
		< DIODE >		R893	1-216-043-11		560	5%	1/10W
D851	0 710 076 00	DIODE UDZ-TE-17-5.1B		DOU	1-216-043-11	DEC CUID	560	5%	1/10W
D861		LED SLR-342PGT31 (♠)		R894 R895	1-216-043-11		560	5%	1/10W 1/10W
D862		LED SLR-342PGT31 (DSPL)		R896	1-216-043-11		560	5%	1/10W
D863		LED SLR-342PGT31 (OFF)		R897	1-216-043-11		560	5%	1/10W
D864	8-719-052-61	LED SLR-342PGT31 (SHUF)		R898	1-216-043-11	RES-CHIP	560	5%	1/10W
D865	8-719-052-61	LED SLR-342PGT31 (►► (AMS))		R899	1-216-043-11	RES-CHIP	560	5%	1/10W
D866		LED SLR-342PGT31 (► II)		R900	1-216-043-11	RES-CHIP	560	5%	1/10W
D867 D868		LED SLR-342PGT31 (I◄◀ (AMS)) LED SLR-342PGT31 (REPEAT)				< SWITCH >			
D000	0 7 10 002 01	LED OLIT 0421 GTOT (HEI LAT)				< OWITOIT >			
		< IC >		S851		SWITCH, KEY BO			
IC851	9 750 260 00	IC LC75822ED		S852 S853		SWITCH, KEY BO SWITCH, KEY BO			
10001	0-759-509-90	IC LOTS022ED		S854		SWITCH, KEY BO	,		
		< JUMPER RESISTOR >		S861		SWITCH, KEY BO		AT)	
JR805	1-216-296-00	SHORT 0		S862	1-572-704-31	SWITCH, KEY BO	ARD (► II)		
JR810	1-216-296-00			S863		SWITCH, KEY BO	` ,	AMS))	
JR811	1-216-296-00			S864		SWITCH, KEY BO			
JR813	1-216-296-00			S881		SWITCH, KEY BO	, -	,	a ala ala ala ala alttt-
JR814	1-216-296-00	SHORT 0		******			********	*****	. A. A. H. H. H. H. H. H.
JR817	1-216-296-00	SHORT 0							
JR818	1-216-296-00								
JR819	1-216-296-00	SHORT 0		I					

LIMIT SW LOAD SW MAIN

Ref. No.	Part No.	<u>Description</u>			Remark	Ref. No.	Part No.	Description			Remark
*	1 650 025 12	-	n						1.uE	200/	50V
*	1-659-835-12	LIMIT SW BOARI				C66	1-126-160-11	ELECT	1uF	20%	
		~~~~~~~~~~~				C67 C69	1-164-346-11 1-164-346-11	CERAMIC CHIP CERAMIC CHIP	1uF 1uF		16V 16V
		, CMITCH .								100/	50V
		< SWITCH >				C84	1-163-021-11		0.01uF	10%	
CMO	1 570 000 11	CWITCH DUCH	4 I/EV/\ /I IN	AIT\		C85	1-124-233-11	ELECT	10uF	20%	16V
SW3		SWITCH, PUSH ( *******			to alo alo alo alo alo alo alo alo	000	1 100 001 11	OEDAMIO OLUB	0.045	100/	F0\/
ale ale ale ale ale ale ale ale a	te ate ate ate ate ate ate ate ate ate a	to also also also also also also also als	*****	*****	te ale ale ale ale ale ale ale ale	C86	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
	4 050 007 44		_			C87	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
*	1-659-837-11	LOAD SW BOARI				C101	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
		******	**			C107	1-124-259-11	ELECT	4.7uF	20%	16V
						C108	1-124-259-11	ELECT	4.7uF	20%	16V
		< SWITCH >									
						C201	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
SW4		SWITCH, PUSH (				C207	1-124-259-11	ELECT	4.7uF	20%	16V
******	******	**********	******	*****	******	C208	1-124-259-11		4.7uF	20%	16V
						C209	1-124-472-11		470uF	20%	10V
*	A-3294-932-A	MAIN BOARD, CO				C401	1-124-584-00	ELECT	100uF	20%	10V
		******	******								
						C402	1-164-346-11	CERAMIC CHIP	1uF		16V
*		HEAT SINK (REG				C701	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
*	3-043-192-01	CHASSIS (REAR)	)			C702	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
*	3-045-807-01	BRACKET (CONN	ECTOR)			C703	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
	7-685-792-09	SCREW +PTT 2.6	3X6 (S)			C704	1-124-233-11	ELECT	10uF	20%	16V
			` '								
		< CAPACITOR >				C705	1-124-589-11	ELECT	47uF	20%	16V
						C708	1-124-233-11	ELECT	10uF	20%	16V
C1	1-124-259-11	ELECT	4.7uF	20%	16V	C709	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C2		CERAMIC CHIP	0.001uF	10%	50V	C712	1-164-004-11		0.1uF	10%	25V
C3		CERAMIC CHIP	10PF	0.5PF	50V	C713	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C4		CERAMIC CHIP	100PF	5%	50V	0710	1 100 200 11	OLI II IIII OI III	0011	0 /0	001
C5		CERAMIC CHIP	0.01uF	10%	50V	C714	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
03	1-103-021-11	OLIMINIO OTTI	0.0 Tul	10 /0	307	C804	1-163-009-11	CERAMIC CHIP	0.01uF	10%	50V 50V
00	1 100 051 11	OEDAMIO OLUD	400DE	F0/	F0)/						
C6		CERAMIC CHIP	100PF	5%	50V	C807	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C7		CERAMIC CHIP	10PF	0.5PF	50V	C808	1-163-234-11	CERAMIC CHIP	20PF	5%	50V
C8		CERAMIC CHIP	10PF	0.5PF	50V	C809	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C9		CERAMIC CHIP	12PF	5%	50V						
C10	1-124-234-00	ELECT	22uF	20%	16V	C812	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
						C813	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C11		CERAMIC CHIP	8PF		50V	C814	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C12		CERAMIC CHIP	0.01uF	10%	50V	C831	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C13	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	C901	1-124-257-00	ELECT	2.2uF	20%	50V
C14		CERAMIC CHIP	47PF	5%	50V						
C15	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	C902	1-163-038-00	CERAMIC CHIP	0.1uF		25V
						C903	1-124-257-00	ELECT	2.2uF	20%	50V
C20	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V	C904	1-110-654-11	DOUBLE LAYERS	0.047F		5.5V
C21	1-163-231-11	CERAMIC CHIP	15PF	5%	50V	C905	1-124-259-11	ELECT	4.7uF	20%	16V
C24	1-124-584-00	ELECT	100uF	20%	10V	C907	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C30		CERAMIC CHIP	0.47uF		25V						
C41		CERAMIC CHIP	0.001uF	10%	50V	C908	1-124-233-11	ELECT	10uF	20%	16V
•		02.0.000	0.00			C909	1-126-768-11		2200uF	20%	16V
C42	1-124-257-00	FLECT	2.2uF	20%	50V	C911	1-124-259-11		4.7uF	20%	16V
C43		CERAMIC CHIP	0.001uF	10%	50V	C912	1-124-584-00		100uF	20%	10V
C44	1-124-229-00		33uF	20%	10V	C914		CERAMIC CHIP	0.1uF	20 /0	25V
				20 /0		0914	1-103-030-00	CENAIVIIC CHIF	U. Tur		237
C45		CERAMIC CHIP	1uF	200/	16V	0015	1 104 050 11	ELECT	4 7uE	200/	16\/
C46	1-126-160-11	ELEUI	1uF	20%	50V	C915	1-124-259-11		4.7uF	20%	16V
0.47	4 404 040 41	OFDARAGO CUIT	4		10)/	C916	1-124-584-00	ELEUI	100uF	20%	10V
C47		CERAMIC CHIP	1uF		16V			0011150505			
C48		CERAMIC CHIP	1uF		16V			< CONNECTOR >			
C61		CERAMIC CHIP	0.001uF	10%	50V	_					
C62	1-124-257-00		2.2uF	20%	50V	CN601	1-792-841-11	`	,	`	IA OUT)
C63	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	CNP701	1-764-617-12	PIN, CONNECTOR			
						CNP801	1-563-614-31				
C65	1-164-346-11	CERAMIC CHIP	1uF		16V	* CNP901	1-691-785-11	PIN, CONNECTOR	(PC BOAR	D) 4P	

## MAIN

CNU600	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description			Remark
CNUBBO   1-793-598-11   JACK (ANTENNA IN)							•	PASS		
CNURSO   1-793-598-11   JACK (ANTENNA IN)   Libit   1-416-501-11   INDUCTOR   2-28H			CUACIC							
C    C    C    C    C    C    C    C	CNJ600	1-793-598-11	JACK (ANTENNA IN)							
Section   Sect	0.10000		57.51. (* <u>-</u> )							
S-719-98-78   DIODE   HULZOZASTRF   D2   8-719-98-133   DIODE   ISSI331-77   D402   8-719-99-133   DIODE   ISSI331-77   D402   8-719-109-71   D10DE   MTZJ-1-77-9-1B   D402   8-719-109-71   D10DE   MTZJ-1-77-9-1B   D402   8-719-109-89   D10DE   MTZJ-1-77-5-6B   D403   R-719-109-89   D10DE   MTZJ-1-77-5-6B   D403   R-719-109-89   D10DE   MTZJ-1-77-5-6B   D403   R-719-109-89   D10DE   MTZJ-1-77-5-6B   D403   R-719-109-89   D10DE   MTZJ-1-77-6-B   D404   R-719-109-89   D10DE   MTZJ-1-77-6-B   D405   R-719-109-89   D10DE   MTZJ-1-77-6-B   D405   R-719-109-89   D10DE   MTZJ-1-77-6-B   D406   R-719-109-89   D10DE   MTZJ-1-77-6-B   D406   R-719-09-29-1   D10DE   MTZJ-1-77-16A   D406   R-719-09-130   D10DE   S151331-77   D406   R-719-991-33   D406   R-			< DIODE >					0.04		
1.764-424-11   JACK_PIN_2P (AUDIO OUT)							< JACK >			
Dady   8-719-991-33   DiODE   ISS1331-77	D1	8-719-058-78	DIODE HVU202A3TRF							
D401	D2	8-719-991-33	DIODE 1SS133T-77		PJ401	1-764-424-11	JACK, PIN 2P	(AUDIO OUT)		
D901   8-719-929-15   DIODE   MTZL-F-77-9.18   O1   8-729-038-51   TRANSISTOR   KTG3875   D904   8-719-108-89   DIODE   MTZL-F-77-5.68   O2   8-729-038-33   TRANSISTOR   KTG3879   D904   8-719-108-89   DIODE   MTZL-F-77-5.68   O3   8-729-038-33   TRANSISTOR   KTG3879   D905   R-719-109-39   DIODE   MTZL-F-77-6.29   D106   MTZL-F-77-6.29   D106   MTZL-F-77-6.29   D106   MTZL-F-77-6.29   D106   MTZL-F-77-16A   D106   MTZL-F-77-16A   D106   MTZL-F-77-16A   D107   TRANSISTOR   KRC104S   D906   8-719-929-31   D100E   MTZL-F-77-16A   D107   TRANSISTOR   KRC104S   D908   8-719-920-82   D100E   MTZL-F-77-11B   D22   8-729-038-74   TRANSISTOR   KRC110S   KRC10S   KRC10S   C106   TRANSISTOR   KRC110S   C106   TRANSISTOR   TRANSISTOR   TRANSISTOR   KRC110S   C106   TRANSISTOR   KRC110	D401	8-719-991-33	DIODE 1SS133T-77					,		
D902	D402	8-719-109-71	DIODE MTZJ-T-77-3.9A				< TRANSISTOI	R >		
D9902   8-719-109-99   DIODE   MTZL-1-77-5.68   D994   8-719-109-98   D996   MTZL-1-77-5.68   D996   8-719-109-98   D996   MTZL-1-77-5.68   D996   8-729-109-93   D996   MTZL-1-77-5.62   D16   8-729-034-95   TRANSISTOR   KTC3879   D996   8-719-923-91   D10DE   MTZL-1-77-16A   D16   8-729-032-33   TRANSISTOR   KTC3879   D996   R-719-923-91   D10DE   MTZL-1-77-16A   D22   8-729-038-74   TRANSISTOR   KTC3879   D998   R-719-920-92   D10DE   HES2-TA18   D22   8-729-038-74   TRANSISTOR   KTC110S   D913   8-719-921-30   D10DE   HES2-TA18   D23   8-729-938-74   TRANSISTOR   KTC110S   D913   8-719-921-30   D10DE   MTZL-1-77-11B   D27   8-729-038-74   TRANSISTOR   KTC110S   D913   8-719-991-33   D10DE   SS133T-77   D28   8-729-038-74   TRANSISTOR   KTC110S   C1C   D100   MTZL-1-77-11B   D27   8-729-038-74   TRANSISTOR   KTC110S   D100   MTZL-1-77-11B   D27   R-729-938-74   TRANSISTOR   KTC110S   R-729-939-74   TRANSISTOR   KTC110S   R-729-	D901	8-719-929-15	DIODE MTZJ-T-77-9.1B							
D9904   8-719-109-99   D100E   MTZL-1-77-568   D16   8-729-903-50   TANNISITOR   KT03579   C16   C16					Q1	8-729-034-51	TRANSISTOR	KTC3875		
D996   8-719-109-89   DIODE   MTZL-1-77-5.6C   D16   8-729-034-69   TRANSISTOR   KTG104S	D902	8-719-109-89	DIODE MTZJ-T-77-5.6B		Q2	8-729-052-33	TRANSISTOR	KTC3879		
D995   R-719-109-93   DIODE   MTZL-T-77-628   D996   R-719-903-94   DIODE   MTZL-T-71-64   D997   R-719-90-93-81   DIODE   MTZL-T-71-64   D998   R-719-90-92   DIODE   MTZL-T-71-18   D998   R-719-90-92   DIODE   MTZL-T-71-18   D999   R-719-90-92   DIODE   MTZL-T-71-18   D999   R-719-90-93-74   TRANSISTOR   KRC110S   D998   R-719-90-93-30   DIODE   SS133T-77   D999   R-729-90-93-74   TRANSISTOR   KRC110S   R-729-90-93-74   TRANSISTOR   KRC10S   R-729-90-93-75   TRANSISTOR	D903				Q3	8-729-052-33	TRANSISTOR	KTC3879		
D906   8-719-923-91   D10DE   MTZJ-T-77-16A	D904	8-719-109-89	DIODE MTZJ-T-77-5.6C		Q15	8-729-034-50	TRANSISTOR	KTA1504		
D907 8-719-049-38   DIODE 1NS404TU   D908 8-719-020-82   D10DE 1NS404TU   D908 8-719-020-82   D10DE 1NS404TU   D918 8-719-020-82   D10DE 1ST33T-77   D919 8-719-991-33   D10DE 1ST33T-77   D919 8-719-991-33   D10DE 1SST33T-77   D919 8-719-991-33   D10DE 1SST33T-77   D919 8-719-991-33   D10DE 1SST33T-77   D919 8-719-991-33   D10DE 1SST33T-77   D919 8-729-038-74   TRANSISTOR KRC110S   D919 8-729-038-75   TRANSISTOR KRC110S   D919 8-729-038-75   TRANSISTOR KRC110S   D919 8-729-038-75   TRANSISTOR KRC110S   D919 8-729-039-50   C A1405F-E2   D919 8-729-038-74   TRANSISTOR KRC110S   D919 8-729-039-50   C A1405F-E2   D919 8-729-039-71   TRANSISTOR KRC110S   D919 8-729-039-71   C B4558F-T1   D81 8-729-020-31   TRANSISTOR KRC13S   D719 8-729-039-71   C B4558F-T1   D81 8-729-030-31   TRANSISTOR KRC13S   D719 8-729-039-71   D919 8-729-039-71   D	D905	8-719-109-93	DIODE MTZJ-T-77-6.2B		Q16	8-729-034-49	TRANSISTOR	KRC104S		
D997   8-719-094-83   DIODE   11852-TA1B   D918   8-719-090-82   D10DE   11852-TA1B   D919   8-719-991-80   D10DE   11852-TA1B   D919   8-719-991-83   D10DE   11852-TA1B   D919   8-719-991-83   D10DE   S1333T-77   D199   8-719-991-33   D10DE   S1333T-77   D29   8-729-038-74   TRANSISTOR   KRC110S   KRC110S   KRC110S   KRC110S   C10   C10	D906	8-719-923-91	DIODE MTZJ-T-77-16A							
D998					Q21	8-729-052-33	TRANSISTOR	KTC3879		
D912   8-719-921-80   D10DE   MTZLF-T7-11B   D28   8-729-038-74   TRANSISTOR   KRC110S   TRANSISTOR   KRC110S   D10DE   SS1331-77   D29   8-729-038-74   TRANSISTOR   KRC110S   D10DE   SS1331-77   D29   8-729-038-74   TRANSISTOR   KRC110S   D10DE   SS1331-77   D29   8-729-038-74   TRANSISTOR   KRC110S   C10   C2   C2   C3   C3   C4   C4   C5   C4   C5   C4   C5   C4   C5   C5	D907	8-719-049-38	DIODE 1N5404TU		Q22	8-729-038-74	TRANSISTOR	KRC110S		
D913	D908	8-719-200-82	DIODE 11ES2-TA1B		Q23	8-729-038-74	TRANSISTOR	KRC110S		
D919   8-719-991-33   DIODE   ISS133T-77	D912	8-719-921-80	DIODE MTZJ-T-77-11B		Q27	8-729-038-74	TRANSISTOR	KRC110S		
CIC   CIC	D913	8-719-991-33	DIODE 1SS133T-77		Q28	8-729-038-74	TRANSISTOR	KRC110S		
C  C  C  C  C  C  C  C  C  C  C  C  C	D919	8-719-991-33	DIODE 1SS133T-77							
C1					Q29					
C1			< IC >		Q30	8-729-038-74	TRANSISTOR	KRC110S		
IC401					Q45	8-729-920-31	TRANSISTOR	DTC343TK-T-	146	
C701	IC1	8-759-393-50	IC A1405F-E2		Q65	8-729-920-31	TRANSISTOR	DTC343TK-T-	146	
C801   8-759-675-96   C uPD17705GC-547-3B9   O82   8-729-034-51   TRANSISTOR   KTC3875   O402   S-729-920-31   TRANSISTOR   DTC343TK-T-146   O403   S-729-920-31   TRANSISTOR   DTC343TK-T-146   O403   S-729-938-68   TRANSISTOR   DTC343TK-T-146   O403   S-729-038-68   TRANSISTOR   DTC343TK-T-146   O403   S-729-038-65   TRANSISTOR   KRC103S   S-729-038-65   TRANSISTOR   KRC102S   S-729-038-65   TRANSISTOR   KR	IC401	8-759-909-71	IC BA4558F-T1		Q81	8-729-034-51	TRANSISTOR	KTC3875		
Variable   Variable	IC701	8-759-464-81	IC PCM1717E-ST2							
SACK   Q402   8-729-903-81   TRANSISTOR   DTG343TK-T-146   Q403   8-729-038-68   TRANSISTOR   KRC103S   KRC103S   RANSISTOR   KRC103S   KRC103S   RANSISTOR   KRC102S   RANSIS	IC801	8-759-675-96	IC uPD17705GC-547-3B9		Q82					
Name					Q401	8-729-920-31	TRANSISTOR	DTC343TK-T-	146	
1-566-82-41   JACK (REMOTE IN)   Q404   8-729-038-55   TRANSISTOR   KRA103S			< JACK >		Q402	8-729-920-31	TRANSISTOR	DTC343TK-T-	146	
Second					Q403	8-729-038-68	TRANSISTOR	KRC103S		
Note	J801	1-566-822-41	JACK (REMOTE IN)		Q404	8-729-038-55	TRANSISTOR	KRA103S		
Note										
JR5			< JUMPER RESISTOR >		Q901					
JR6					Q902					
JR7					Q903					
JR10									LQ	
DR11					Q905	8-729-038-67	TRANSISTOR	KRC102S		
Decoration   Dec										
DR12	JR11	1-216-296-00	SHORT 0							
Section   Sect					Q907	8-729-019-00	TRANSISTOR	2SD2394-G		
JR17										
JR19										
DR21					Q910	8-729-052-35	TRANSISTOR	STD1664		
Q912   8-729-034-51   TRANSISTOR   KTC3875     JR23										
JR23	JR21	1-216-296-00	SHORT 0							
JR24					Q912					
JR28   1-216-295-00   SHORT   0   Q915   8-729-038-55   TRANSISTOR   KRA103S     JR31   1-216-295-00   SHORT   0     JR32   1-216-295-00   SHORT   0   Q917   8-729-052-35   TRANSISTOR   STD1664     Q918   8-729-038-67   TRANSISTOR   KRC102S     JR35   1-216-296-00   SHORT   0   Q921   8-729-922-47   TRANSISTOR   ZSB1184-TLR     JR46   1-216-296-00   SHORT   0   Q922   8-729-038-67   TRANSISTOR   KRC102S     JR922   1-216-296-00   SHORT   0   CRESISTOR     L1   1-419-619-11   COIL, IFT   R2   1-216-107-00   METAL CHIP   270K   5%   1/10W     L1   1-419-619-11   COIL, IFT   R2   1-216-053-00   METAL CHIP   1.5K   5%   1/10W     L1   1-419-619-11   COIL, IFT   R2   1-216-053-00   METAL CHIP   1.5K   5%   1/10W     L1   1-419-619-11   COIL, IFT   R2   1-216-053-00   METAL CHIP   1.5K   5%   1/10W     L1   1-419-619-11   COIL, IFT   R2   1-216-053-00   METAL CHIP   1.5K   5%   1/10W     L1   L2   L2   L2   L2   L2   L2   L2										
JR31 1-216-295-00 SHORT 0 JR32 1-216-295-00 SHORT 0 JR35 1-216-296-00 SHORT 0 JR35 1-216-296-00 SHORT 0 JR46 1-216-296-00 SHORT 0 JR922 1-216-296-00 SHORT 0 JR922 1-216-296-00 SHORT 0 JR922 1-216-296-00 SHORT 0 JR922 1-216-296-00 SHORT 0  R1 1-216-107-00 METAL CHIP 270K 5% 1/10W  R2 1-216-053-00 METAL CHIP 1.5K 5% 1/10W										
JR32   1-216-295-00   SHORT   0   Q917   8-729-052-35   TRANSISTOR   STD1664   Q918   8-729-038-67   TRANSISTOR   KRC102S   JR35   1-216-296-00   SHORT   0   Q921   8-729-922-47   TRANSISTOR   SEB1184-TLR   Q922   8-729-038-67   TRANSISTOR   KRC102S   JR922   1-216-296-00   SHORT   0   CRESISTOR   COIL >   R1					Q915	8-729-038-55	TRANSISTOR	KRA103S		
Q918   8-729-038-67   TRANSISTOR   KRC102S     Q921   8-729-922-47   TRANSISTOR   KRC102S     Q922   8-729-922-47   TRANSISTOR   KRC102S     Q923   8-729-038-67   TRANSISTOR   KRC102S     Q924   8-729-038-67   TRANSISTOR   KRC102S     Q925   8-729-038-67   TRANSISTOR   KRC102S     C926   RESISTOR     C927   RESISTOR   KRC102S     C928   RESISTOR     C929   RESIS										
JR35 1-216-296-00 SHORT 0 Q921 8-729-922-47 TRANSISTOR 2SB1184-TLR JR46 1-216-296-00 SHORT 0 Q922 8-729-038-67 TRANSISTOR KRC102S  JR922 1-216-296-00 SHORT 0										

## MAIN

Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>
R5	1-216-063-11	RES-CHIP	3.9K	5%	1/10W	R332	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6	1-216-073-00		10K	5%	1/10W	R333	1-216-073-00		10K	5%	1/10W
R7		METAL CHIP	10K	5%	1/10W	R401	1-216-049-11		1K	5%	1/10W
R8	1-216-075-00	METAL CHIP	12K	5%	1/10W	R408	1-216-073-00	METAL CHIP	10K	5%	1/10W
R9	1-216-198-11	RES-CHIP	1K	5%	1/8W	R409	1-216-073-00	METAL CHIP	10K	5%	1/10W
D10	1 010 070 00	METAL CLUD	101/	E0/	1/10/4/	D704	1 010 005 11	DEC CLUD	100	E0/	1/10/4/
R10		METAL CHIP	10K	5%	1/10W	R701	1-216-025-11	RES-CHIP	100	5%	1/10W
R11 R12	1-216-059-00 1-216-190-00	METAL CHIP RES-CHIP	2.7K 470	5% 5%	1/10W 1/8W	R702 R703	1-216-033-00 1-216-033-00	METAL CHIP METAL CHIP	220 220	5% 5%	1/10W 1/10W
R13	1-216-190-00	RES-CHIP	100K	5%	1/0W	R703	1-216-033-00	METAL CHIP	220	5%	1/10W
R14	1-216-037-11	METAL CHIP	330	5%	1/10W	R704	1-216-033-00	METAL CHIP	330	5%	1/10W
11.14	1-210-037-00	WEIAL OIIII	330	J /0	1/1000	11700	1-210-037-00	WETAL OTT	550	<b>J</b> /0	1/1000
R15	1-216-174-00	RES-CHIP	100	5%	1/8W	R707	1-216-027-00	METAL CHIP	120	5%	1/10W
R16	1-216-037-00	METAL CHIP	330	5%	1/10W	R708	1-249-393-11	CARBON	10	5%	1/4W
R17	1-216-043-11	RES-CHIP	560	5%	1/10W	R801	1-216-073-00	METAL CHIP	10K	5%	1/10W
R18	1-216-049-11	RES-CHIP	1K	5%	1/10W	R802	1-216-105-11	RES-CHIP	220K	5%	1/10W
R19	1-216-025-11	RES-CHIP	100	5%	1/10W	R804	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R20	1-216-041-00	METAL CHIP	470	5%	1/10W	R806	1-216-049-11	RES-CHIP	1K	5%	1/10W
R21	1-216-073-00	METAL CHIP	10K	5%	1/10W	R807	1-216-049-11	RES-CHIP	1K	5%	1/10W
R22	1-216-049-11	RES-CHIP	1K	5%	1/10W	R810	1-216-105-11	RES-CHIP	220K	5%	1/10W
R23	1-216-073-00	METAL CHIP	10K	5%	1/10W	R812	1-216-073-00	METAL CHIP	10K	5%	1/10W
R41	1-216-049-11	RES-CHIP	1K	5%	1/10W	R813	1-216-073-00	METAL CHIP	10K	5%	1/10W
R42	1-216-073-00	METAL CHIP	10K	5%	1/10W	R814	1-216-049-11	RES-CHIP	1K	5%	1/10W
R43	1-216-689-11	METAL CHIP	39K	0.5%	1/10W	R815	1-216-049-11		1K	5%	1/10W
R45		METAL CHIP	10K	5%	1/10W	R817	1-216-057-00		2.2K	5%	1/10W
R46		METAL CHIP	2.2K	5%	1/10W	R818	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R61	1-216-049-11		1K	5%	1/10W	R820	1-216-073-00	METAL CHIP	10K	5%	1/10W
DCO	1 010 070 00	METAL CLUD	101/	E0/	1/10/4/	D004	1 010 105 11	DEC CLUD	0001/	E0/	1/10/4/
R62 R63	1-216-073-00 1-216-689-11	METAL CHIP	10K 39K	5% 0.5%	1/10W 1/10W	R824 R825	1-216-105-11 1-216-105-11		220K 220K	5% 5%	1/10W 1/10W
R65	1-216-073-00	METAL CHIP METAL CHIP	10K	5%	1/10W	R826	1-216-105-11		220K 220K	5% 5%	1/10W
R66	1-216-073-00	METAL CHIP	2.2K	5%	1/10W	R828	1-216-254-00		220K	5%	1/10W
R81	1-216-037-00	METAL CHIP	2.2K 22K	5%	1/10W	R830	1-216-254-00		220K	5%	1/8W
Doo	1 010 010 11	DEC CLUB	417	F0/	4 /4 00 14	D004	1 010 000 11	DEC OUID	4717	<b>5</b> 0/	4 (4 0) 14
R82	1-216-049-11	RES-CHIP	1K	5%	1/10W	R831		RES-CHIP	47K	5%	1/10W
R83	1-216-045-00 1-216-689-11	METAL CHIP	680	5%	1/10W	R832	1-216-073-00		10K	5%	1/10W
R85	1-216-057-00	METAL CHIP	39K 2.2K	0.5%	1/10W 1/10W	R833 R834	1-216-049-11	RES-CHIP	1K 1K	5% 5%	1/10W 1/10W
R101 R102	1-216-037-00	METAL CHIP METAL CHIP	2.2K 10K	5% 5%	1/10W 1/10W	R901	1-216-049-11 1-216-182-00		220	5% 5%	1/10W 1/8W
11102	1-210-073-00	WILTAL OTHE	TUK	J /0	1/1000	11301	1-210-102-00	NES-OTH	220	J /0	1/000
R104	1-216-097-11		100K	5%	1/10W	R902	1-216-182-00		220	5%	1/8W
R105	1-216-088-00		43K	5%	1/10W	R903	1-216-190-00		470	5%	1/8W
R106	1-216-065-11	RES-CHIP	4.7K	5%	1/10W	R904	1-249-395-11	CARBON	15	5%	1/4W
R107		METAL CHIP	43K	5%	1/10W	R905	1-216-077-11		15K	5%	1/10W
R108	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	R907	1-216-081-00	METAL CHIP	22K	5%	1/10W
R109	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	R908	1-216-105-11	RES-CHIP	220K	5%	1/10W
R110	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	R909	1-216-105-11	RES-CHIP	220K	5%	1/10W
R119	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	R910	1-216-079-00	METAL CHIP	18K	5%	1/10W
R201		METAL CHIP	2.2K	5%	1/10W	R912	1-216-079-00	METAL CHIP	18K	5%	1/10W
R202	1-216-073-00	METAL CHIP	10K	5%	1/10W	R913	1-216-081-00	METAL CHIP	22K	5%	1/10W
R204	1-216-097-11	RES-CHIP	100K	5%	1/10W	R914	1-249-413-11	CARBON	470	5%	1/4W
R205	1-216-088-00	METAL CHIP	43K	5%	1/10W	R916	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R206	1-216-065-11	RES-CHIP	4.7K	5%	1/10W	R918	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
R207	1-216-088-00	METAL CHIP	43K	5%	1/10W	R919	1-216-105-11	RES-CHIP	220K	5%	1/10W
R208	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	R920	1-216-025-11	RES-CHIP	100	5%	1/10W
R209	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	R921	1-216-025-11	RES-CHIP	100	5%	1/10W
R210	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	R922	1-216-049-11		1K	5%	1/10W
R219	1-216-061-00		3.3K	5%	1/10W	R923	1-216-057-00		2.2K	5%	1/10W

## MAIN SERVO

5 ( 1)	B . N	5			5 .	l B ( N	5	<b>.</b>			5 .
Ref. No.	<u>Part No.</u>	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>			Remark
		< VARIABLE RESI	S10R >			C34 C35		CERAMIC CHIP CERAMIC CHIP	1uF 0.01uF	10% 10%	10V 50V
RV10	1-241-761-11	RES, ADJ, CARBO	N 1K			C36		CERAMIC CHIP	0.01uF 0.1uF	10%	25V
RV11		RES, ADJ, CARBO				C37		CERAMIC CHIP	0.1uF	10%	25V
						C38	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
		< RELAY >				000	1 100 001 11	EL FOT OLUB	47 5	000/	401/
RY1	1-515-614-11	DEI AV				C39 C40	1-126-204-11	CERAMIC CHIP	47uF 0.1uF	20% 10%	16V 25V
nii	1-313-014-11	NELAT				040	1-104-004-11	GENAIVIIG GHIF	U.Tur	10 /0	231
		< THERMISTOR >						< CONNECTOR >			
TH801	1 000 140 11	THEDMICTOD D	TIIOI 07 A D 0	DOMADE	:10	CNI4	1 704 010 10	HOUSING, CONN	CCTOD (DC		200
ΙΠΟΟΙ	1-009-140-11	THERMISTOR P	I HOLUTANZ	:NUIVI I DO	010	CN1 CN2	1-764-616-12	,	`	buanu)	307
		< VIBRATOR >				CN3		CONNECTOR, FPO			
								•			
X1		VIBRATOR, CRYS						< IC >			
X701 X801		VIBRATOR, CERA VIBRATOR, CRYS				IC1	8-752-372-04	IC XD2507AQ			
		********			******	IC2		IC XA1782BQ			
						IC3		IC A6796FP-T1			
*	A-3309-227-A	SERVO BOARD, C									
		******	*****					< JUMPER RESIS	STOR >		
		< CAPACITOR >				JR1	1-216-296-00	SHORT	0		
		CONTROTTOTT >				JR2	1-216-296-00		0		
C1	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	JR3	1-216-296-00		0		
C2		CERAMIC CHIP	0.01uF	10%	50V	JR4	1-216-296-00	SHORT	0		
C3	1-135-145-11	TANTALUM CHIP	0.47uF	10%	35V	JR5	1-216-296-00	SHORT	0		
C4		CERAMIC CHIP	100PF	5%	50V						
C5	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V	JR6	1-216-296-00		0		
						JR7	1-216-296-00		0		
C6		CERAMIC CHIP	0.0015uF	10%	50V	JR8	1-216-296-00		0		
C7		CERAMIC CHIP	0.047uF	10%	25V	JR9	1-216-296-00		0		
C9		CERAMIC CHIP	0.1uF	10%	25V	JR10	1-216-296-00	SHORT	0		
C10 C11	1-126-206-11 1-135-259-11		100uF 10uF	20% 20%	6.3V 6.3V	JR11	1-216-296-00	CHUDT	0		
UII	1-133-239-11	IANIAL. UNIF	TOUF	20 /0	0.31	JR12	1-216-296-00		0		
C12	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	JR13	1-216-296-00		0		
C13		CERAMIC CHIP	0.01uF	10%	50V	JR14	1-216-296-00		0		
C14		CERAMIC CHIP	0.033uF	10%	25V	JR15	1-216-296-00		0		
C15		CERAMIC CHIP	0.01uF	10%	50V						
C16	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V	JR16	1-216-296-00	SHORT	0		
						JR17	1-216-296-00	SHORT	0		
C17	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	JR18	1-216-296-00	SHORT	0		
C18		CERAMIC CHIP	0.1uF	10%	25V	JR19	1-216-296-00		0		
C19		CERAMIC CHIP	0.022uF	10%	25V	JR20	1-216-296-00	SHORT	0		
C20		CERAMIC CHIP	0.47uF	10%	16V			00=			
C21	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	JR21	1-216-296-00		0		
000	1 100 051 11	CEDAMIC CUID	10000	E0/	E01/	JR22	1-216-296-00		0		
C22 C23		CERAMIC CHIP TANTAL. CHIP	100PF 10uF	5% 20%	50V 6.3V	JR23 JR24	1-216-296-00 1-216-296-00		0 0		
C24		CERAMIC CHIP	220PF	20 % 5%	50V	JR25	1-216-296-00		0		
C25		CERAMIC CHIP	0.47uF	10%	16V	JINZJ	1-210-290-00	3110111	U		
C26		CERAMIC CHIP	0.47 til	10%	25V	JR26	1-216-296-00	SHORT	0		
020		3_10 mm 0 01m	J. 1 u l	10/0		JR27	1-216-296-00		0		
C27	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	JR28	1-216-296-00		0		
C28		CERAMIC CHIP	0.015uF	5%	50V	JR29	1-216-296-00		0		
C29		CERAMIC CHIP	0.1uF	10%	25V	JR30	1-216-296-00	SHORT	0		
C30	1-126-603-11		4.7uF	20%	35V						
C31	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V	JR31	1-216-296-00		0		
000	4 400 000 00	OED ANNO CUID	0.045.5	F0/	F0) /	JR32	1-216-296-00		0		
C32		CERAMIC CHIP	0.015uF	5%	50V	JR33	1-216-296-00		0		
C33	1-124-779-00	ELEUI UMIP	10uF	20%	16V	JR34	1-216-296-00	SHUKI	0		

## SERVO SUB

					_						
Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>
JR35	1-216-296-00	SHORT	0			R36	1-216-097-11		100K	5%	1/10W
JR36	1-216-296-00		0			R37	1-216-117-00	-	680K	5%	1/10W
JR37	1-216-296-00	SHORT	0			R38	1-216-109-00	METAL CHIP	330K	5%	1/10W
JR38	1-216-296-00	SHORT	0			R39	1-216-101-00	METAL CHIP	150K	5%	1/10W
JR39	1-216-296-00	SHORT	0			R40	1-216-114-00	RES-CHIP	510K	5%	1/10W
JR40	1-216-296-00	SHORT	0			R41	1-216-093-11	RES-CHIP	68K	5%	1/10W
JR41	1-216-296-00		0			R42	1-216-103-00		180K	5%	1/10W
JR43	1-216-296-00		0			R43	1-216-097-11		100K	5%	1/10W
JR44	1-216-296-00		0			R44	1-216-085-00		33K	5%	1/10W
JR45	1-216-296-00		0			R45	1-216-081-00		22K	5%	1/10W
31143	1-210-290-00	3110111	U			1143	1-210-001-00	WILTAL OTHE	ZZK	J /0	1/1000
JR46	1-216-296-00	SHORT	0			R45	1-216-089-11		47K	5%	1/10W
						R46	1-216-097-11		100K	5%	1/10W
		< COIL >				R47	1-216-105-11		220K	5%	1/10W
						R48	1-216-073-00	METAL CHIP	10K	5%	1/10W
L1	1-412-058-11	INDUCTOR CHIP				R49	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
L2	1-412-058-11	INDUCTOR CHIP									
L3	1-412-058-11	INDUCTOR CHIP	10uH			R50	1-216-065-11	RES-CHIP	4.7K	5%	1/10W
						R51	1-216-295-00	SHORT	0		
		< TRANSISTOR :	>								
								< CERMET RESIS	TOR >		
Q1		TRANSISTOR D									
Q2	8-729-904-86	TRANSISTOR 2	SB1197K-T	-146-Q		RV1		RES, ADJ, CERM			
						RV4		RES, ADJ, CERM			
		< RESISTOR >				******	******	******	*******	******	*****
R1	1-216-073-00	METAL CHIP	10K	5%	1/10W	*	1-659-834-11	SUB BOARD			
R2	1-216-097-11		10K	5 % 5%			1-009-004-11	*******			
R3	1-216-097-11				1/10W 1/10W			ale			
	1-216-061-00	METAL CHIP	1M	5% 5%	1/10W			< CONNECTOR >			
R4	1-216-061-00		3.3K 3.3K	5% 5%				< CONNECTOR >			
R5	1-210-001-00	WETAL CHIP	J.JN	5%	1/10W	CN1	1-770-347-21	CONNECTOR, FPO	C 6P		
R6	1-216-073-00	METAL CHIP	10K	5%	1/10W	_		*****		******	******
R7	1-216-009-11		22	5%	1/10W						
R8	1-216-119-00		820K	5%	1/10W			MISCELLANEOUS	3		
R9	1-216-119-00	METAL CHIP	820K	5%	1/10W			********			
R10	1-216-073-00		10K	5%	1/10W						
1110	1 210 070 00	WEINE OIII	1010	0 / 0	1/1000	5	1-792-738-11	CORD (WITH COI	NNECTOR)	(POWER)	)
R11	1-216-073-00	METAL CHIP	10K	5%	1/10W	207		MOTOR FLEXIBLE		,	
R14	1-216-085-00		33K	5%	1/10W	1 210 1 €		PICK-UP. OPTICA	-	A/K1RP	
R15	1-216-085-00		33K	5%	1/10W	212		PICK-UP FLEXIBL		VIXIII	
R16	1-216-077-11		15K	5%	1/10W	F901		FUSE (BLADE TY		FUSE) (1)	Δ)
R17	1-216-081-00		22K	5%	1/10W	1001	1 002 700 11	TOOL (DEADE TH	L) (/1010	. 001) (17	, ,,
	. 2.0 00. 00			0,0	.,	F902	1-532-731-11	FUSE (BLADE TY	PF) (AUTO	FUSE) (3)	A)
R19	1-216-079-00	METAL CHIP	18K	5%	1/10W	M901		MOTOR ASSY (S	, ,	. 002) (0.	• • •
R20	1-216-105-11		220K	5%	1/10W	M902		MOTOR ASSY, SL			
R21	1-216-105-11		220K	5%	1/10W	M903		MOTOR SUB ASS		G (LOADI	NG)
R22	1-216-085-00		33K	5%	1/10W			******			
R23	1-216-121-11		1M	5%	1/10W						
1120	1 210 121 11	NEO OIIII	1101	0 / 0	1/1000		ACCESSORIES	& PACKING MATE	RIALS		
R24	1-216-073-00	METAL CHIP	10K	5%	1/10W		*****	*****	*****		
R27	1-216-295-00		0								
R28	1-216-101-00		150K	5%	1/10W		3-045-044-11	MANUAL, INSTRI	JCTION (EN	IGLISH)	
R29	1-216-097-11	RES-CHIP	100K	5%	1/10W	******	******	*****	******	******	******
R30	1-216-097-11		100K	5%	1/10W						
R31	1-216-081-00		22K	5%	1/10W						
R32	1-216-109-00		330K	5%	1/10W						
R33	1-216-105-11		220K	5%	1/10W						
R34	1-216-009-11		22	5%	1/10W						
R35	1-216-065-11	RES-CHIP	4.7K	5%	1/10W						

The components identified by mark △ or dotted line with mark △ are critical for safety.

Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
		*******	
		HARDWARE LIST	
#1	7-685-792-09	SCREW +PTT 2.6X6	(S)
#2	7-685-105-19	SCREW +P 2X8 TYPE	
#3	7-628-253-00	SCREW +PS 2X4	
#4	7-627-553-37	SCREW, PRECISION	+P 2X3 TYPE3
#5	7-627-553-17	SCREW, PRECISION	
#6 #7	7-627-000-00	,	
#7	7-627-850-28		+P 1.4X3 *********
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	PARTS FOR IN	STALLATION AND CON	INECTIONS
		*********	
251	3-014-370-21	FRAME, FITTING	
252	3-916-012-01	BRACKET (ND), FITT	ING ASSIST
253	7-682-160-01	SCREW +P 4X6	10
254	X-3368-725-1	SCREW ASSY, FITTIN	IG
255	X-3378-482-1	COLLAR ASSY	
256	3-931-977-01	BRACKET	
257	3-934-325-01	SCREW (+K 5X8 TP)	
258	1-792-738-11	CORD (WITH CONNE	CTOR) (POWER)
* 050	0.005.404.04	DDAOKET (DELEACE)	(INCLUDING F901,902)
* 259	3-035-161-01	BRACKET (RELEASE)	
251		252	254
231		232	F
1 Per	700		253
1 8CL		CHICAGO TO THE PARTY OF THE PAR	
`		_	
255		256	257
		~	
		<b>₽</b> a	
			Wan.
]		<b>4</b> √ ×2	×4
258		259	^*
		-	

## **CDX-1000RF**